

Blue M GO1300A

## Laboratory Gravity Oven



**\$995.00**

**In Stock**

**Qty Available: 1**

**Used and in Good Condition**

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# 2132 2116

## MODELS

### Ideal for

- small ovens
- chillers
- sterilisers
- trace heating
- heat sealing

### Specifications

#### Dimensions:

Model 2132:

48W x 24H x 103D mm

Model 2116:

48W x 48H x 103D mm

#### Control modes:

PID or On/Off

#### Supply voltages:

85-264Vac, 5.0watts max.

20-29Vac or dc, 5.0watts maximum

#### Operating ambient:

0-55°C, 0-90%RH non-condensing

#### Inputs:

Nine standard thermocouple types.  
Pt100. 4-20mA linear.  
Custom input available

#### Output ratings:

Relay: 2A, 264Vac resistive  
Logic: 9Vdc, 18mA

#### Panel sealing:

IP65, plug-in from front panel



## PID Temperature Controllers

Available in compact 1/32 and 1/16 DIN panel sizes, the 2100 series uses advanced PID algorithms to give stable 'straight line' temperature control.

Self tuning is included to optimise the control performance without the need for specialist knowledge or training.

A **universal input** allows selection of nine internally stored thermocouple types and the Pt100 resistance thermometer. Other input linearisations may be factory downloaded. Linear inputs can be scaled to the desired display range.

Two **outputs** are configurable for heating, cooling or alarms.

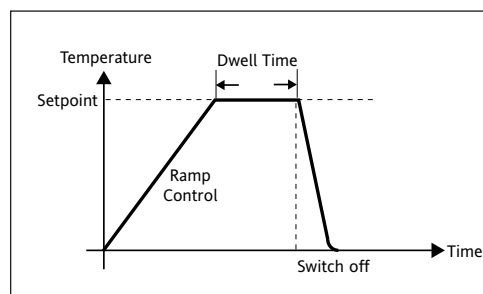
**Three internal alarm setpoints** are provided, configurable as high, low or deviation alarms. Alarms can be 'blocked' on start-up to prevent unnecessary operator alerts.

**Heater failure** can be detected when the controller is used with a TE10S Solid State Relay.

**Tactile buttons** ensure positive operation.

**The operator interface** can be customised to present only those parameters that an operator needs to see and adjust, while all other parameters are locked away under password protection.

## Timer functionality

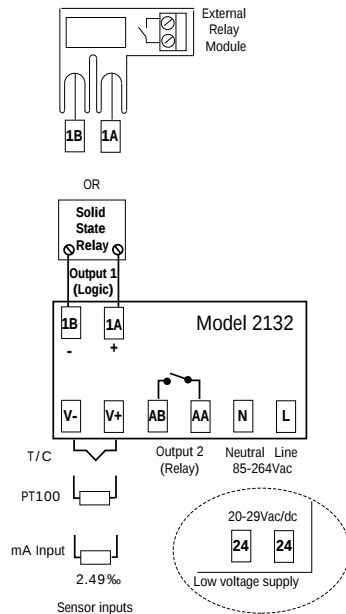


**EUROTHERM**

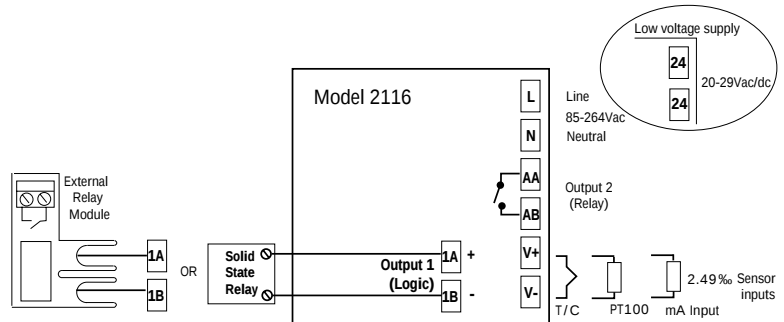
CONTROLS  
PROCESS AUTOMATION  
RECORDERS

# Rear terminal connections

## Model 2132



## Model 2116



## Ordering codes

| Model Number | Function | Supply Voltage | Manual | Output 1 (Logic) | Output 2 (Relay) | Sensor Input | Setpoint Min | Setpoint Max | Units | Ext. Relay Module | Input Adaptor |
|--------------|----------|----------------|--------|------------------|------------------|--------------|--------------|--------------|-------|-------------------|---------------|
|              |          |                |        |                  |                  |              | note 2       | note 2       |       |                   |               |

| Model Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Output 1 (Logic)                                                                                                                                                                                                                                                                                                  | Output 2 (Relay)                                                                                                                                                                                        | Sensor Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Setpoint Min | Setpoint Max |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|----|-----|---|------|--|------|---|------|--|------|---|------|--|-----|---|------|--|-----|---|------|--|------|---|-----|--|------|---|-----|--|------|---|---|--|------|---|---|--|------|---|------|--|-----|--|-----|----|-----|---|---|--|------|---|---|--|------|---|------|--|------|---|---|--|------|---|---|--|------|---|---|--|------|---|---|--|------|---|----|--|------|---|---|--|------|---|-----|--|------|---|-----|--|-----|--|-----|----|-----|---|-------|--|--------------|---|---|--|-------------------------|---|---|--|-------------------------|---|---|--|------------------------------------------|--|--|
| 2132 48x24mm unit<br>2116 48x48mm unit                                                                                                                                                                                                                                                                                                                                                                                                                                        | XX No function<br><b>Logic output</b><br>LH Heating<br>LC Cooling<br>M1 PDS heater break detect (note 1)<br>FH High alarm 1<br>FL Low alarm 1<br>DB Dev. band alarm 1<br>DL Dev. low alarm 1<br>DH Dev. high alarm 1<br>NW New alarm<br><b>Logic input</b><br>AC Alarm ack/reset<br>KL Keylock<br>TM Timer Off/On | XX No function<br>RH Heating<br>RC Cooling<br>FH High alarm 2<br>FL Low alarm 2<br>AL High alarm 2 & low alarm 3<br>DB Dev. band alarm 2<br>DL Dev. low alarm 2<br>DH Dev. high alarm 2<br>NW New alarm | <b>Standard Sensor Inputs</b> <table><tr><th></th><th>Min</th><th>°C</th><th>Max</th></tr><tr><td>J</td><td>-210</td><td></td><td>1200</td></tr><tr><td>K</td><td>-200</td><td></td><td>1372</td></tr><tr><td>T</td><td>-200</td><td></td><td>400</td></tr><tr><td>L</td><td>-200</td><td></td><td>900</td></tr><tr><td>N</td><td>-200</td><td></td><td>1300</td></tr><tr><td>R</td><td>-50</td><td></td><td>1768</td></tr><tr><td>S</td><td>-50</td><td></td><td>1768</td></tr><tr><td>B</td><td>0</td><td></td><td>1820</td></tr><tr><td>P</td><td>0</td><td></td><td>1369</td></tr><tr><td>Z</td><td>-200</td><td></td><td>850</td></tr></table> <b>Factory Downloaded Input</b> <table><tr><th></th><th>Min</th><th>°C</th><th>Max</th></tr><tr><td>C</td><td>0</td><td></td><td>2319</td></tr><tr><td>D</td><td>0</td><td></td><td>2399</td></tr><tr><td>E</td><td>-200</td><td></td><td>1000</td></tr><tr><td>1</td><td>0</td><td></td><td>1399</td></tr><tr><td>2</td><td>0</td><td></td><td>1870</td></tr><tr><td>3</td><td>0</td><td></td><td>2000</td></tr><tr><td>4</td><td>0</td><td></td><td>2010</td></tr><tr><td>5</td><td>10</td><td></td><td>2300</td></tr><tr><td>6</td><td>0</td><td></td><td>2000</td></tr><tr><td>7</td><td>200</td><td></td><td>1800</td></tr><tr><td>8</td><td>-45</td><td></td><td>650</td></tr></table> <b>Process Inputs</b> (Scaled to setpoint min and max) <table><tr><th></th><th>Min</th><th>°C</th><th>Max</th></tr><tr><td>M</td><td>-9.99</td><td></td><td>+80mV linear</td></tr><tr><td>Y</td><td>0</td><td></td><td>to 20mA linear (note 3)</td></tr><tr><td>A</td><td>4</td><td></td><td>to 20mA linear (note 3)</td></tr><tr><td>V</td><td>0</td><td></td><td>to 10Vdc linear (Input adaptor required)</td></tr></table> |              | Min          | °C | Max | J | -210 |  | 1200 | K | -200 |  | 1372 | T | -200 |  | 400 | L | -200 |  | 900 | N | -200 |  | 1300 | R | -50 |  | 1768 | S | -50 |  | 1768 | B | 0 |  | 1820 | P | 0 |  | 1369 | Z | -200 |  | 850 |  | Min | °C | Max | C | 0 |  | 2319 | D | 0 |  | 2399 | E | -200 |  | 1000 | 1 | 0 |  | 1399 | 2 | 0 |  | 1870 | 3 | 0 |  | 2000 | 4 | 0 |  | 2010 | 5 | 10 |  | 2300 | 6 | 0 |  | 2000 | 7 | 200 |  | 1800 | 8 | -45 |  | 650 |  | Min | °C | Max | M | -9.99 |  | +80mV linear | Y | 0 |  | to 20mA linear (note 3) | A | 4 |  | to 20mA linear (note 3) | V | 0 |  | to 10Vdc linear (Input adaptor required) |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Min                                                                                                                                                                                                                                                                                                               | °C                                                                                                                                                                                                      | Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| J                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -210                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         | 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| K                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -200                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         | 1372                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -200                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -200                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         | 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -200                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         | 1300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| R                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -50                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                         | 1768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -50                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                         | 1768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 1820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| P                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 1369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -200                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         | 850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Min                                                                                                                                                                                                                                                                                                               | °C                                                                                                                                                                                                      | Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 2319                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 2399                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -200                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                         | 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 1399                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 1870                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                         | 2300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                         | 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -45                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                         | 650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Min                                                                                                                                                                                                                                                                                                               | °C                                                                                                                                                                                                      | Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| M                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -9.99                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                         | +80mV linear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | to 20mA linear (note 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | to 20mA linear (note 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| V                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                         | to 10Vdc linear (Input adaptor required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| <b>Function</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| CC PID Controller<br>NF On/Off Controller<br>TC PID Controller +Timer<br>TN On/Off Contr' + Timer                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| <b>Supply Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| VH 85-264Vac<br>VL 20-29V dc or ac                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| <b>Manual</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| XXXX No manual<br>ENG English<br>FRA French<br>GER German<br>NED Dutch<br>SPA Spanish<br>SWE Swedish<br>ITA Italian                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |
| <div>Note 1. PDS heater break detect will transmit the power demand to a TE10S Solid State Relay and read back a heater break alarm.</div> <div>Note 2. Setpoint min and max : Include the decimal position required in the displayed value. Up to one for temperature inputs, up to two for process inputs.</div> <div>Note 3. An external 1% current sense resistor is supplied as standard. If greater accuracy is required specify 'A1' in the Input Adaptor field.</div> |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |              |    |     |   |      |  |      |   |      |  |      |   |      |  |     |   |      |  |     |   |      |  |      |   |     |  |      |   |     |  |      |   |   |  |      |   |   |  |      |   |      |  |     |  |     |    |     |   |   |  |      |   |   |  |      |   |      |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |   |  |      |   |    |  |      |   |   |  |      |   |     |  |      |   |     |  |     |  |     |    |     |   |       |  |              |   |   |  |                         |   |   |  |                         |   |   |  |                                          |  |  |

### Example ordering code

2132- CC - VH - ENG - LH - RC - K - 0 - 1000 - C - XX - XX

2132, Controller, 85 to 264Vac, English manual, Logic heating, Relay cooling, Type K thermocouple, 0 to 1000°C, no options

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