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TECHNOLOGY GROUP

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GP:50

Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA
Tel. (716) 773-9300 • Fax (716) 773-5019
sales@gp50.com • www.gp50.com

DIGITAL INDICATOR

Model 1211, 1254





MODEL 1211

FEATURES:

- 4 Digit LED Display
- Thermocouple, RTD, mV, mA, V, and Resistance Inputs
- Alarm Relay(s)
- Zero/Tare and Max/Min Memory

ORDERING GUIDE:

Use the following codes to identify desired item.

MODEL	OUTPUT	BUTTONS	POWER	DISPLAY
●	●	●	●	●

Example:1211-AB-B-1-R

Model

1211

Output

A	1 Alarm Relay
B	2 Alarm Relays
C	3 Alarm Relays
D	1 Alarm Relay, 1 Analog Output (4-20mA)
E	2 Alarm Relays, 1 Analog Output (4-20mA)
F	3 Alarm Relays, 1 Analog Output (4-20mA)

Buttons

N	Blank Fascia
B	Front Panel Push Buttons

Power

1	90-250V AC Input
2	10-32V AC or DC Low Voltage Input

Display

R	Red Display
G	Green Display

MODEL 1254

FEATURES:

- 5 Digit LED Display
- “Fast-Cal” Calibration
- Transducer Excitation Supply
- Isolated Analog Input
- Transducer Health “Test” Function
- Dual Alarm Relays
- Serial Communications

ORDERING GUIDE:

Use the following codes to identify desired item.

MODEL	POWER	DISPLAY
●	●	●

Example:1254-1-R

Model

1254	(2 Alarm Relays)

Power

1	90-250V AC Input

Display

R	Red Display
G	Green Display

FAST CAL OPERATION:

Automatically calibrates & matches the indicator to a pressure transducer. It records the output at zero pressure & then records the Span by activating the transducers internal calibration resistor. Transducer Test - Allows a fast & accurate method of checking the wiring, calibration, and health of the connected transducer.
Additional - Display Hold, Alarm Acknowledge, Key board Lock.

See reverse side for specifications.

A5SL-1200.00 Rev A

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

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DIGITAL INDICATOR

Model 1211, 1254

Typical configurations (consult factory for more options)

MODEL 1211

Display	
Type	14.2mm high brightness red LED (green optional)
Range	4 digit (-1999 tp 9999)
Update Rate	2 per second
A/D Converter	
Type	Dual slope intergrating w/ auto zero
Conversion Rate	100 mS
Common Mode Rejection	>150dB
Series Mode Rejection	>70dB
Thermocouple Inputs	
Type	J, K, T, N, S, R
CJC Accuracy	1°C after 30 minutes
Open Circuit Detection	Upscale
Engineering Units	°C or °F
Resolution	1 or 0.1°C (°F)
RTD	
Type	Pt100 (alpha = 385) Pt100 (alpha = 392)
Configuration	3 wire
Excitation Units	°C or °F
Resolution	1 or 0.1° C (°F)
Voltage & Current Inputs	
Ranges	±20mA, ±100mV, ±10VDC
Scaling	Any portion of the display range
Accuracy	0.05% at 25°C typical
Impedance	< 5 Ohms (mA), > 100 MOhms (mV) > 100 MOhms (V)
Analog Output (Option)	
Output	4 to 20mA
Maximum Output	22mA
Accuracy	0.2% at 25° C typical
Maximum Load	500 Ohms
Resolution	0.02mA
Alarm Relays (Relays 2 & 3 are optional)	
Relays 1 & 2	Change over contacts
Relays 3	Normally open contacts
Rating	1 Amp at 250 VAC, 5 Amp at 30 VDC
Physical / Mechanical	
Front Panel	Protection to IP65
Dimensions (mm)	48(H) x 96(W) X 100(D)
Weight	0.4Kg
Environmental	
Temperature	10 to 50°C operating, -10 to 70°C storage
Humidity	0-95% RH non condensing

MODEL 1254

Display	
Type	14.2mm high brightness red LED (green optional)
Range	5 digit (-19999 tp 99999)
Update Rate	2 per second
Resolution	User selectable
Input	
ADC Type	Dual slope integrating auto zero, 17 bit (universal for mV, mA, V)
Resolution	Up to 1 microV per display digit (mV input)
Accuracy	0.05% of reading
Measurement Rate	10 per second
Input Impedance	>100MOhms (mV inputs)
Common Mode Rejection	>150dB
Series Mode Rejection	>70dB
Transducer Supply	
Excitation	User selectable regulated 0-12VDC at 35mA Loop power 24VDC, nominal (35mA max)
Alarm Relays	
Relays	2 off, single change over contacts
Rating	1 Amp at 250VAC, 5 Amp at 30VDC
Analog Output	
Isolation	500VDC / Peak AC
Output	User selectable 0 to 10VDC, 0 to 20mA, or 4 to 20mA
Scaling	User Scaling to any displayable value
Accuracy	0.2% at 25°C typical
Response	100ms
Resolution	0.05% (5mV or 0.01mA)
Max. Voltage Output	11V at 22mA
Max. Current Output	22mA at 18V
Max. Load	900 Ohms
Serial Communications	
Type: RS 422/485, 2 or 4 wire multidrop Isolation: 500Vdc/Peak ac Speed: 1200, 2400, 4800, 9600 baud Parity: Odd, even or none Stop bits: 1 or 2 Protocols: MODBUS™ RTU (J-BUS), MODBUS™, ASCII & DTPL	
Physical / Mechanical	
Dimensions (mm)	48(H) x 96(W) X 100(D)
Weight	0.4Kg
Environmental	
Temperature	10 to 50°C operating, -10 to 70°C storage
Humidity	0-95% RH non condensing
Alarms	
Display	Alarms can be flashed on the display with the measured value.
Menus	4 menus, each individually user selectable.

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

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