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TECHNOLOGY GROUP

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DORIC INSTRUMENTS

A Division of VAS Engineering

600 Series

Base Model is only $599



- **Laboratory Accuracy to 0.01%**
- **Full 5-digit (99999 Counts) Resolution**
- **14 Plug-in Options**
- **Sensitivity to 1 Microvolt/Count**
- **Simple, Front Panel Programming**
- **Superior Temperature Measurement**
- **Process Voltage and Current Loop**
- **Strain-Gage Measurement**
- **LED Displayed Engineering Units**
- **Made in USA**

Select this text to download Literature for the 600 Series in PDF format.
Select this text to download the 600 Series Operator's Manual in PDF format.

A custom, DORIC-designed, integrating voltage-to-frequency A/D converter combined with precision filtering, isolated electronics, and multi-segment digital linearizations lets the Series 600 accommodate wide measuring ranges at a very high resolution - high enough to achieve laboratory accuracy in process and test measurements. The Series 600 offers repeatability, reliability, and compatibility with most sensors.

Temperature can be measured from -460 to +4206°F, -273 to 2318°C, or 0 to 2592K, all with 0.1° resolution. DC voltage can be measured to 1µV and ranges are available up to 100V. Process voltage and current loops can easily be scaled from the front panel, within 99999 display counts. And, strain-gage indicators measure load cells, pressure, torque, thrust, and force with 0.01% precision.

Whether you're measuring the temperature of molten metal or testing jet engine performance, make your choice a Series 600 digital indicator.

A Broad Selection of Options

Series 600 instruments offer unparalleled flexibility, allowing you to configure them specifically for your application. The series has the industry's widest selection of options. Specify only those options you need by adding option cards into the instrument's rear slots.

Convenience From The Front

Just about everything can be done from the front panel--even calibration. Simple display instructions prompt you every step of the way. Change sensor type selection, change °F or °C, set alarm points, or reset math options-from the front panel. And when an option is installed, you'll be prompted appropriately.

Also, all output options are fully isolated, keeping unwanted ground loops from affecting the instrument's measuring system. This further maintains the instrument's high accuracy and increases your confidence in the displayed value.

Unique Sensor Error Compensation

Compensate for sensor offset errors with SensorMatch™ - errors like those that commonly occur with thermocouples. SensorMatch corrects offset errors inherent in sensors, leadwires, and deviations from reference operating conditions. Use it to optimize measuring systems at a single measurement point such as monitoring a calibration bath.

EMI/RFI Noise Protection

The Series 600 operates accurately in tough environments where RFI and EMI can cause problems for other panel indicators. An all-metal case, bezel, and rear panel isolate the internal electronics from outside interference.

Temperature Measurement

The Series 600 measures and displays as few as one input point or, with multi-input options, as many as twenty-four. Model 610 is a single input instrument for rack or panel mounting and can accommodate up to two option cards. Model 612 is an expanded, double-width indicator that accommodates up to five options. Both are compatible with a wide selection of temperature sensors.

Sensor compatibility is easy to specify because only 3 range cards accommodate all sensor types. The thermocouple range card accommodates the fourteen types of thermocouples shown in the range table. The RTD range card accommodates the six types of RTD sensors. The thermistor range card accommodates both types of thermistors. They offer 0.1° resolution with thermocouples and RTD sensors and provide 0.01° to 0.02° resolution for thermistors.

A specific sensor type (e.g., type J thermocouple) is keypad selectable from the front panel. The front panel keypad is also used to select °F, °C, or Kelvin display units.

Order Model 610--1 for thermocouple inputs, 610--5 for RTD inputs, 610--6 for thermistor inputs (Specify up to two option cards, e.g., 610T--_____.)

Order Model 612--X for thermocouple inputs, 612--X for RTD inputs, 612--X for thermistor inputs (Specify up to five option cards, e.g., 612--5-___-___-___-___-___).

NOTE: " " specifies power: 1 = 115VAC, 2 = 230VAC.

RTD Range Table

Sensor Type	Order Code	Range/Display	Accuracy(±)	Resolution
Platinum-100Ω at 0°C 3 or 4-wire, a=0.00385/ Din 43670 curve	-5	-332° to +1571°F -202° to +855°C 70 to 1128 K	0.2°F 0.1°C 0.1 K	0.1°F 0.1°C 0.1 K
Platinum-100Ω at 0°C 3 or 4-wire a=0.00392	-5	-401° to +1572°F -240° to +855°C 32 to 1128 K	0.2°F 0.1°C 0.1 K	0.1°F 0.1°C 0.1 K
Platinum-200Ω at 0°C 3 or 4-wire a=0.00392	-5	-330° to +1566°F -201° to +852°C 72 to 1125 K	0.2°F 0.1°C 0.1 K	0.1°F 0.1°C 0.1 K
Platinum-1000Ω at 0°C 3 or 4-wire, a=0.00375/ Hycal, Ultra 7 curve	-5	-330° to +1025°F -204° to +1200°C 68 to 1473 K	0.2°F 0.1°C 0.1 K	0.1°F 0.1°C 0.1 K
Copper-10Ω at 25°C 3 or 4-wire, per Minco table 16-9	-5	-337° to +507°F -205° to +264°C 68 to 537 K	0.8°F 0.4°C 0.4 K	0.1°F 0.1°C 0.1 K
Nickle-120Ω at 0°C 3 or 4-wire, per Minco table 7-120	-5	-112° to +608°F -80° to +320°C 192 to 593 K	0.4°F 0.2°C 0.2 K	0.1°F 0.1°C 0.1 K

Thermocouple Range Table

Sensor Type		Order Code	Range/Display	Accuracy(±)	Resolution
Iron-Constantan	J	-1	-336° to +2193F -204° to +1200°C 68 to 1473 K	0.5°F 0.3°C 0.3 K	0.1°F 0.1°C 0.1 K
Chromel®*-Alumel®*	K	-1	-299° to +2503F -184° to +1373°C 88 to 1646 K	0.6°F 0.3°C 0.3 K	0.1°F 0.1°C 0.1 K
Copper-Constantan	T	-1	-373° to +753°F -225° to +400°C 56 to 1275 K	0.4°F 0.3°C 0.3 K	0.1°F 0.1°C 0.1 K
Chromel®*-Constantan	E	-1	-358° to +1835°F -217° to +1001°C 56 to 1275 K	0.6°F 0.3°C 0.3 K	0.1°F 0.1°C 0.1 K
Platinum-Platinum 13%, Rhodium	R	-1	+32° to +3219°F 0° to +1770°C 273 to 2043 K	1.2°F (above 79.0°F) 0.7°C (above 26.0°C) 0.7K	0.1°F 0.1°C 0.1 K

				(above 299.2 K)	
Platinum-Platinum 10%, Rhodium	S	-1	+32° to +3216°F 0° to +1769°C 273 to 2042 K	1.2°F (above 79.0°F) 0.7°C (above 26.0°C) 0.7K (above 299.2 K)	0.1°F 0.1°C 0.1 K
Platinum 30%, Rhodium-Platinum 6%, Rhodium	B	-1	+899° to +3309°F +481° to +1820°C 755 to 2094 K	2.0°F 1.1°C 1.1 K	0.1°F 0.1°C 0.1 K
Nicrosil-Nisil	N	-1	+32° to +2301°F 0° to +1260°C 273 to 1543 K	0.5°F 0.3°C 0.3 K	0.1°F 0.1°C 0.1 K
Tungsten 5%, Rhenium-Tungsten 26%, Rhenium	C	-1	-10° to +4200°F -23° to +2318°C 249 to 2589 K	1.1°F 0.6°C 0.6 K	0.1°F 0.1°C 0.1 K
Tungsten-Tungsten 26%, Rhenium	G	-1	+295° to +4206°F +146° to +2318°C 419 to 2592 K	1.1°F 0.6°C 0.6 K	0.1°F 0.1°C 0.1 K
Tungsten 3%, Rhenium-Tungsten 25%, Rhenium	D	-1	-8° to +4203°F -22° to +2317°C 250 to 2590 K	1.1°F 0.6°C 0.6 K	0.1°F 0.1°C 0.1 K
Chromel®*-Gold .07%, Atomic Iron	CGI	-1	-460° to +44°F -273° to +7°C 0 to 280 K	0.4°F 0.2°C 0.2 K	0.1°F 0.1°C 0.1 K
Iron Constantan DIN	FeCon	-1	-330° to +1654°F -201° to +901°C 71 to 1174 K	0.9°F 0.2°C 0.5 K	0.1°F 0.1°C 0.1 K
Copper-Constantan DIN	CuCon	-1	-331° to +1114°F -201° to +601°C 71° to 874 K	0.9°F 0.5°C 0.5 K	0.1F 0.1°C 0.1 K
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Thermistor Range Table

Sensor Type	Order Code	Range/Display	Accuracy ()	Resolution
Thermistor Series YSI 400, 225Ω @25°C 2-wire	-6	-42° to +221°F -41° to +105°C 231 to 458 K	0.4°F 0.2°C 0.2 K	0.02°F 0.01°C 0.01 K
Thermistor Series YSI 700 3-wire	-6	+31° to +213°F 0° to +100°C 272 to 373 K	0.4°F 0.2°C 0.2 K	0.01°F 0.01°F 0.01 K

DC and Scaled DC Measurement and Display

DC Voltage. Functioning as a digital voltmeter, the Series 600 provides precision measurement and display of DC voltages. Four ranges, 100mV, 1V, 10V, and 100V, are standard. Each range is displayed to its highest resolution within the full 99999 counts of the Series 600 Indicators. With

0.01% accuracy and 1 digit repeatability, lab quality measurements are possible with a panel mount indicator.

For applications demanding more than measurement and display, look to the Series 600 Options. You can enhance the basic VDC measurement with multi-input switching, scanning, analog or digital outputs, delta inputs or math expressions - options that meet the most demanding applications.

Order Model 610--2 plus up to 2 options; 612--2 plus up to 5 options.

NOTE: " " specifies power: 1 = 115VAC, 2 = 230VAC.

Scaled DC Voltage and Current Loop. The Series 600 can accurately measure and display commonly found process signals to proportional engineering units. There are three basic configurations to consider when configuring for your desired input and scaled display.

First, for current loop measurements, the standard "current" input card allows selection of either 4-20mA or 10-50mA as its input. Then, this input is prescaled and displayed to you as 0.00 to 100.00%.

Second, when you desire to display something other than 0 to 100%, you can add the scaling and offset options, 600-01. This option allows you to rescale the display anywhere within ±99999 counts, change the engineering units, and/or reposition the decimal point location (e.g., 4-20mA displayed as 0.00 to 560.0 GPM).

Third, for scaled DC voltages the same scaling and offset option, -SCL, can be specified for use with the DC Voltage Input Range Card. Any input with the ranges shown in the DC Voltage Range Table can be scaled, offset, have engineering units assigned, and/or have decimal position changed (e.g., 1-5 VDC input can be displayed as 200.0 to 750.0 PSI).

Order Model 610--4 for current loop inputs as 0-100% and up to 2 options, 612--4-01 for current loop inputs with scaling and up to 5 options, 610--4-01 for current loop inputs with scaling and up to one other option, 612--4-01 for current loop inputs with scaling and up to four other options, 610--2-01 for VDC inputs with scaling and up to one other option, 612--2-01 for VDC inputs with scaling and up to four other options.

NOTE: " " specifies power: 1 = 115VAC, 2 = 230VAC.

DC Voltage Range Table

	Sensor Type	Order Code	Range/Display**	Accuracy(±)*	Resolution
DC mV	-2	-15.000 to +99.999mV	.01%	0.001mV	
DC mV	-2	-150.00 to +999.99mV	.01%	0.01mV	

DC Volts	-2	-1.5000 to +9.9999V	.01%	0.0001V
DC Volts	-2	-15.000 to +99.999V	.01%	0.001V

* Accuracy percentage is of reading, ±1digit.

* With order code -2 and Scaling and Offset Option (-01), any input from -15 to +100V can be scaled to display within -10000 to ±99999 display counts.

Scaled Range Table

	Sensor Type	Order Code	Range/Display**	Accuracy(±)*	Resolution
.4-20mA	-4	0 to 100%	.01%	0.01%	
10-50mA	-4	0 to 100%	.01%	0.01%	

* Accuracy percentage is of reading, ±1digit.

** With order code -4 and Scaling and Offset Option (-01), input can be scaled to display within -10000 to ±99999 display counts.

Digital Strain-gage Indicators

The Series 600 of Digital Strain-gage Indicators is equally compatible with lower output bonded foil type transducers as with high output semiconductor transducers (up to 100mV). Each instrument allows selection from one of four full-scale voltage ranges to optimize sensitivity.

The measuring technique used is the unique voltage-to-frequency conversion, dual slope method with a true, four-wire ratio measurement. This method assures accurate and stable readings even in noisy environments that can occur with fluctuating excitation power. Also, it allows for use of indicators with floating or grounded transducers.

Three alphanumeric LEDs are supplied either for display of engineering unit tables (e.g., PSI, KG, LBS) or as "0" for active display of dead zeros.

Digital scaling is standard. Drift-free scaling is set to precise engineering units and decimal location via the instrument's simple, front panel keyboard entry.

Dual engineering units (e.g., LBS and KG) are standard. The primary and secondary engineering unit displays are easily toggled via the front panel. For example, the primary could be pounds (lbs) while the secondary, a mathematically proportional kilograms (kg). Because of their math equivalency, all options function correctly, regardless of display selection.

System calibration can be accomplished using a 3-point "live" load, such as actual weight on a scale, or via electronic instrument calibration using a DC

voltage source.

To reduce settling indications on the display or option outputs, the display may be rounded to count by 1, 2, 5, 10, or 100 counts via a simple program menu selection.

Auto zero (tare) may be accomplished by the auto zero menu command or while the process is running. A simple, simultaneous push of the arrow down - (Ø) and ENT keys rezeros the indicator.

Three Base Models

There are three base models of strain-gage indicators from which you can select. The models vary by their excitation power supply and the availability of option slots.

The Model 620 is for a user-supplied, external excitation source. It has two available option slots.

The Model 621 includes a built-in excitation supply capable of driving one or two 350Ω bridges. Supply voltage is switch selectable for 5, 10, or 15VDC. One option slot is available.

The Model 622 includes a higher output built-in excitation supply and, because it comes in a larger double-width chassis, the ability to add up to four options. This excitation supply provides 5, 10, 15, or 20VDC selection with the capability to excite up to eight 350Ω bridges.

Order Models 620G--8 for use with external supply and up to two options, 621G -8 for built-in supply and one option slot, 622g--8 for built-in supply and four options slots.

NOTE: " " specifies power: 1 = 115VAC, 2 = 230VAC.

Strain-gage Range Table				
	Range	**Order Code**	**Accuracy(±)***	**Resolution**
-15mV to +100mV	-8	0.01%	1µV per count	
-30mV to +200mV	-8	0.01%	1µV per count	
-75mV to +500mV	-8	0.01%	1µV per count	
-1500mV to +1V	-8	0.01%	1µV per count	
* Accuracy percentage is of reading, ±1digit.				

Series 600 Options

Tailor the basic instruments and your applications with options to extend your measurement capabilities. A complete explanation, any usage restrictions, and option ordering codes are included in the following descriptions. Any option can be ordered now or added in the future so your Series 600 Indicator will never be obsolete.

Available options slot summary: 610 Models: 2, 612 Models: 5, 620 Model: 2, 621 Model: 1, 622 Model: 4.

Multiple inputs. Monitor as many as 24 inputs. The first multiple input card provides an additional five channels of thermocouple or voltage, or two channels of RTD, or thermistor inputs. Additional cards add six more thermocouple or voltage, or three more RTD or thermistor inputs. One card per Model 610 or a maximum of 4 cards per Model 612 instruments. (This feature is not for use with current loop or strain-gage versions.) *Order Option -21 for 6 input of thermocouple or voltage, -21 for 3 inputs of RTD or thermistor.*

Differential measurement. This card provides an additional input channel and the capability to display the difference (**s**T) between the two channels.

The -22 option card can be specified with thermocouple and voltage input models. The -23 option is specifically for use with RTD or thermistor configurations.

This function can be combined with other options: maximum, minimum, and average deltas when used with math capability, scaled analog output of differentials when used with analog output, and alarm points based on differential limits (Cannot be used in same indicator with -20 and -21 options. Not for use with current loop or strain-gage versions.) *Order Option -22 for DELTA and 2 thermocouple or voltage inputs, -23 for DELTA and 2 RTD or thermistor inputs.*

Scaling and offset. Specifically designed for use with voltage and current loop versions of the 610 and 612, this option provides wide range user scaling of the display to process units.

With this option you can rescale and offset inputs for display in direct engineering units to ±99999 counts. In addition, you can assign alphanumeric labels or dead zeros to the displayed units.

For example, 4-20mA could be scaled to display "0.00-255.00 PSI", "LBS", "KG", "GPM", etc. And it's easy.

Unlike with other instruments, you need not perform any computations or enter any formulas. Simply enter upper and lower input and output values. The Series 600 does the rest, adjusting the optimum slope and offset for you automatically. (This option is not for use with Models 620, 621, or 622 as digital scaling is included as standard.) *Order Option -1*

Math expressions. Provides display of maximum, minimum, rate of change, or the timed average value of measurements. Front panel keys allow you to view the math value or switch back to view the actual measured value. *Order Option -04*

Alarms. Each option card provides two alarms with separate limits and relays. Up to two cards can be specified. Any combination of high, low, or ± values can be used to trigger the alarm from either actual or math processed input. Trigger delay and a settable dead-band are included as standard. *Order Option -03 (Up to 2 per instrument.)*

DC power. For automotive, marine, aviation, or plant DC power loops, the Series 600 can be configured for 12 or 24VDC power operation. (Cannot be used in Models 621 or 622.) *Order Option -10 for 9-16VDC, -11 for 18-32VDC (One type per instrument.)*

Analog output. For output to recorders or other analog input instruments, you can choose from two fully isolated linearized and analog outputs. Both output types, 4-20mA or 0-10VDC, can be fully scaled. Output can be assigned to direct measurements or math values. *Order Option: -06 for 4-20mA, -05 for 0-10VDC*

Scanning Option. The scanning option gives the capability to scan multiple inputs by working with the multi-input cards in your indicator. This new option requires no programming; thus, no special menu prompts are given with this option installed.

The display readout shows the value of multi-input card channels at a default rate of 3.4 seconds a channel. The display rate can be made slower (6.8 sec) - refer to the configuration instructions to change the rate of display.

It is recommended that the scanning option not be used with a communications option such as serial output, etc., since measurement data cannot be identified as discrete channels. Order Option: -31

Digital Outputs

Three digital output modes are available for output to digital equipment.

Serial output. RS232C or 20mA interface sends display information in serial ASCII format. Includes user-selectable transmission rates from 300 to 9600 baud, line feed, and carriage return. *Order Option -07*

IEEE-488 output. For integrating IEEE-488 Bus based measurement or analytical systems. Main indicator and other options can be programmed via the IEE-488 Bus. *Order Option -08*

Series 600 accessories. The Rack Adapter Plate permits mounting of the Series 600 instruments in a standard 19" (48.2cm) instrument rack. Different versions have cutouts for 1, 2, or 3 indicators.

Order Accessory -RKM1 for 1 cutout for Models 610, 620, or 621; -RKM2 for 2 cutouts for Models 610, 620, or 621; -RKM3 for 3 cutouts for Models 610, 620, or 621; -RKD1 for 1 cutout for Models 612 or 622.

Model 600 Series General Specifications

Repeatability
±1 digit

Stability with Ambient Temperature
Zero: 0.5µV/°C
Span: 0.005% rdg/°C
Reference Junction automatic built-in,
0.018°/° for 0°-50°C J, K, T, E, N, C,
G, D, CGI,FeCon, and CuCon thermocouples
For R, S, and B thermocouples: 0.03°/°

Noise Rejection
NMRR: ≥60dB at 50Hz or 60Hz ±0.1Hz
CMRR: ≥120dB at 50Hz or 60Hz ±0.1Hz

Overload Protection
Power lead to ground: 1500VDC or VAC RMS
Input to ground: 270VDC or VAC RMS
Across inputs: 270VDC or VAC RMS continuous

4-20mA range: 80mA
10-50mA range: 200mA

Input Impedance
Thermocouples: 22MΩ (with 20nA of break detect current)
RTDs: I1 to VinLo (10MΩ), 12 to VinLo (12.3KΩΩ), depending on range VinHi to VinLo (500MΩ)
Thermistors: I1 to VinHi (3.2KΩ), I1-12, (9.45KΩ)
Voltage: 10MΩ to 500MΩ depending on range
Current: <15Ω
Strain-gage: 10MΩ to 500MΩ depending on range

Environmental Ranges
Operating: 0° to 50°C
Storage: -40° to +65°C
Humidity: ≤90%RH noncondensing

Display
8 digits, 14-segment alphanumeric red LEDs
0.54" (13.7mm) H.
Also one negative ("-") LED at left of array

Input Connections
Sensors: screw terminal blocks
Multi-input: quick connect
AC power: plug-in
DC power: screw terminal blocks

Alarms Option
2 alarm settings per alarm option -
up to 2 alarm options per instrument,

Form C relay output (1A at 120VAC) reset
auto, manual, remote, and override selectable
alarm delay and deadband

Multi-input Options -20 and -21 Accuracy

Thermocouple: ±10µV to ±70µV depending on T/C type and measurement point

RTD:

Cu10: ±10mΩ

All others: ±50mΩ

Current loop and thermistor: no effect

Point Update Rate

2 readings per second,
1 reading/second for R, S, B, C, G, D,
and CGI thermocouples

Linearization, Temperature Inputs

100% digital, using variable length,
second-order, polynomial segments

Program Storage

EEROM

Case Construction

Metal, black anodized, extruded aluminum

Reliability

40,000 hours MTBF

Installation

Panel mounting from front, secured at sides
by rail clamps supplied with each indicator

Size (H x W x D)

Single-wide Models 610, 620, 621

Case: 2.63" x 5.34" x 9.87"
(6.7cm x 13.6cm x 25cm)
Bezel: 2.84" x 5.67" (7.2cm x 14.4cm)
Panel cutout: 2.68" x 5.44" (6.8cm x 13.8cm)

Double wide Models 612, 622

Case: 2.63" x 10.69" x 9.87"
(6.7cm x 27.2cm x 25cm)
Bezel: 2.84" x 11.01" (7.2cm x 28.cm)
Panel cutout: 2.68" x 10.79" (6.8cm x 27.4cm)

Weight

Single-wide: 4 lbs (1800 g)
Double-wide: 6 lbs (2800 g) without options

Power

AC power, 90V to 132V: 48Hz to 400Hz,
190V to 262 V: 48Hz to 400Hz,

8.0W typical (without options)
detachable 6-foot (1.8m) power cord is supplied,
two detachable 6-foot power cords are supplied
with Model 622

Excitation Supply

Model 621: 5, 10, and 15 volts, switch selectable isolated, will drive two parallel 350Ω strain-gages at 15V (90mA)

Model 622: 5, 10, 15, and 20 volts, switch selectable, isolated, will drive eight parallel 350Ω strain-gages at 15V (350mA)

Warranty

1 Year

600 Series Ordering Guide			
Base Model	**Power Code**	**Range Codes**	**Options Code**
610 612	1= 90-132VAC 2=190-262VAC	-1 (Thermocouple) -2 (Voltage) -4 (Current & Loop) -5 (RTD) -6 (Thermistor)	See 600 Series Options List for individual details and codes.
620 621 622		-8 (Strain-gage)	
Examples:	610-1-1-03 612-2-5-21-21-06-04 621-18 622-1-8-16-03-03-07		

Back to Products Page

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