



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

Tel. (716) 773-9300 • Fax (716) 773-5019

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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



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Typical configurations (consult factory for more options)

MODEL 1211	MODEL 1254
Display Type 14.2mm high brightness red LED (green optional) Range 4 digit (-1999 to 9999) Update Rate 2 per second	Display Type 14.2mm high brightness red LED (green optional) Range 5 digit (-19999 to 99999) Update Rate 2 per second Resolution User selectable
A/D Converter Type Dual slope integrating w/ auto zero Conversion Rate 100 mS Common Mode Rejection >150dB Series Mode Rejection >70dB	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
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)	Transducer Supply Excitation User selectable regulated 0-12VDC at 35mA Loop power 24VDC, nominal (35mA max)
RTD Type Pt100 (alpha = 385) Pt100 (alpha = 392) Configuration 3 wire Excitation Units °C or °F Resolution 1 or 0.1°C (°F)	Alarm Relays Relays 2 off, single change over contacts Rating 1 Amp at 250VAC, 5 Amp at 30VDC
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 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
Analog Output (Option) Output 4 to 20mA Maximum Output 22mA Accuracy 0.2% at 25°C typical Maximum Load 500 Ohms Resolution 0.02mA	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 & DTP
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 Dimensions (mm) 48(H) x 96(W) X 100(D) Weight 0.4Kg
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
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.