

4-Digit Indicator with Sensor Power Supply

For use with Voltage Output Pressure Transducers or
4 to 20 mA Current Output Pressure Transmitters

- Provides 24 VDC Excitation for Voltage Output Pressure Transducers or Current Output Pressure Transmitters
- High Visibility, 4-digit, Fully Scalable, LED Display
- Straightforward, Menu-Driven Set-Up
- Optional User-Programmable Set Points with Relays and LED Alarm Status Indicators
- Optional 4-20 mA Output for Process Recorder or PLC



Series 100A02

panel-mount indicator provides excitation power for pressure transmitters and programmable relays for alarm and control purposes.

The Model 100A02 is a 1/8 DIN, panel-mount indicator / power supply that has been specifically designed for use with internally amplified, voltage-output pressure transducers, or 4 to 20 mA current-output pressure transmitters. The unit operates from universal AC or DC power, provides 24 VDC sensor excitation, and displays measurements on a bright red, 4-digit, LED display. Additional features include overload indication and peak hold with reset capability.

Optional features include a 4-20 mA output signal for remote monitoring or recording purposes; two user-programmable, set-point activated, relay contacts for alarm, shut-down, or control purposes; individual LED indicators of set-point status; and a clear, NEMA 4X front cover.

The Model 100A02 represents a cost effective approach for process indication, alarm, and control of pressure and level.

As with all equipment from PCB®, the Model 100A02 is complemented with toll-free applications assistance, 24-hour customer service, and is backed by a Total Customer Satisfaction guarantee.



Specifications

Performance	
Input Channels	1
Display	4 digit, 0.56 in (14.2 mm) red LED
Set Point Status Indicator	One LED per set point
Decimal Point	Selectable, X•X•X•X•
Scale Factor (for display of engrg. units)	-1999 to +9999
Overrange Indication	Display flash on pos. or neg. overrange
Conversion (update) Rate	5 Hz
Accuracy	± 0.05% of reading, plus 2 counts
Electrical	
Input Signal	0 to 20 VDC or 4 to 20 mA
Sensor / Transmitter Excitation Delivered	24 VDC
Hysteresis (deadband) about Setpoint	± (9999/2) counts from setpoint
Power Required (auto sensing, wide range)	85 to 265 VAC or 95 to 370 VDC
Power Consumption	2.5 watt typical, 3.5 watt max
Warm-Up Time	<2 min
Programmability	
Scale factor, Offset, Decimal point location, Set point adjustment, Peak and valley view and reset, LED brightness, HI or LOW set point relay action, Relay hysteresis	
Environmental	
Operating Temperature Range	+32 to +140 °F (0 to +60 °C)
Storage Temperature Range	-4 to +158 °F (-20 to +70 °C)
Humidity (non-condensing)	<95 %
Mechanical	
Size	Bezel: 1/8 DIN (96 × 48 mm)
Depth	4.61 in (117 mm)
Connector Depth (add)	0.47 in (11.8 mm) for right angle block
Connector Depth (add)	0.79 in (20 mm) for straight thru block
Electrical Connections	Screw terminals on removable blocks
Weight	6.5 oz (184 gm)
Options	
Analog Output	4 to 20 mA output signal
NEMA 4X Lens Cover with Key Lock	Field installable
Metal Surround Case	Must be factory installed
Relays (individually adjustable HI or LOW)	Two 5 Amp Form A

How to Order

Base Model

100A02 Indicator / Power Supply

Input

- 0 0 to 20 VDC with 24 VDC excitation delivered to sensor / transmitter
- 1 4 to 20 mA with 24 VDC excitation delivered to sensor / transmitter

Power Required

- 0 85 to 265 VAC or 95 to 370 VDC

Analog Output

- 0 None
- 1 Isolated 16 bit user scalable 4-20 mA output signal

Relay Outputs

- 0 None
- 1 Two 5 Amp Form A relays

Accessories

- 00 None
- 01 NEMA 4X, clear, lockable, splash-proof front cover
- 02 Metal surround case - includes screw mounting clips
- 03 NEMA 4X, clear front cover and metal surround case

Example

100A02 0 0 0 0 01 Standard indicator with clear, NEMA 4X front cover



This product conforms to applicable European Directives for CE marking.



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ISO 9001:2000 CERTIFIED

A2LA ACCREDITED to ISO 17025

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The Pressure Division of PCB[®] Piezotronics, Inc. specializes in the development, application, and support of piezoelectric and piezoresistive pressure sensors, transducers, and transmitters for dynamic and static pressure test, measurement, monitoring, and control requirements. This product focus, coupled with the strengths and resources of PCB, permits the Pressure Division to offer exceptional customer service, 24-hour technical assistance, and a **Total Customer Satisfaction** guarantee.

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