Series 100A02  panel-mount indicator provides excitation power for pressure transmitters and programmable relays for alarm and control purposes.

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

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

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### How to Order

**Base Model**

<table>
<thead>
<tr>
<th>100A02 Indicator / Power Supply</th>
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<tbody>
<tr>
<td><strong>Input</strong></td>
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<tr>
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<td><strong>Power Required</strong></td>
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<td><strong>Relay Outputs</strong></td>
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<tr>
<td><strong>Accessories</strong></td>
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**Example**

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

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This product conforms to applicable European Directives for CE marking.

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.