**SPECIFICATIONS**

**DISPLAY**
- Digits: 3 ½ digits (+1999 counts)
- Type: 0.5" (12mm) high-contrast reflective LCD automatic, “-” displayed
- Decimal Points: 3 position, user-selectable
- Overrange: three lower order digits blank for inputs >1999 & < -1999 available OEM option, contact factory
- Hold:

**INPUTS**
- Ranges: ±200.0 mV, ±2.000 V, ±20.00 VDC
- Configuration: bipolar & differential
- Protection: ±350 VDC, (±100 VDC on 200 mV range)
- Impedance: >10 MΩ, (>1 MΩ on 20 V range)

**PERFORMANCE**
- Accuracy: ±0.1% +1 count typical
- ±0.1% + 2 counts maximum
- Conversion Rate: 2.5 per second
- Normal Mode Rejection: >30 dB @ 60 Hz
- Common Mode Range: ±1 VDC
- Common Mode Rej.: >86 dB
- Zero Adjustment: automatic
- Warmup: 10 minutes typical
- Temperature Coefficient: ±100 ppm per °C typical

**ENVIRONMENT**
- Operating Range: 0 to 50 °C
- Storage Range: -10 to 70 °C

**POWER SUPPLY**
- 5V powered: +5 VDC (±5%) at 2.5 mA
- 9V(±5V) powered: +7.2 to +12 V at 180 µA

**MOUNTING**
- CONNECTION
- 13 pins, 0.025" square on 0.1" centers - pin 3 missing

**ACCESSORIES**
- J1C4: 4 Pin Connector / Wire Assembly
- J1C13: 13 Pin Connector / Wire Assembly
- PW2-5: Regulated 120V AC to 5V DC Power Supply
- PW2-12: Regulated 120V AC to 12V DC Power Supply
- CVC: Calibrator

**FEATURES**
- Low-cost, high-performance replacement for many OEM DPMs
- Mounting:
  - Snap-in bezel mount eliminates mounting hardware
- Low power: choice of 180µA (9V) or 2.5mA (+5V)
- Space-saving design: only 1" (25 mm) deep
- Occupies less than 2.5 X 1.1 inches of front panel space
- 3 1/2 digits with high-contrast LCD
- Optional loop powered 4 to 20mA process inputs available (see DK590)

**ORDERING INFO**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>BACKLIGHT COLOR</th>
<th>METER INPUT</th>
<th>METER POWER</th>
<th>BACKLIGHT COLOR</th>
<th>METER POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DK500</td>
<td>NO BACKLIGHT</td>
<td>200mV</td>
<td>+5VDC</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>DK501</td>
<td>NO BACKLIGHT</td>
<td>2V</td>
<td>+5VDC</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>DK502</td>
<td>NO BACKLIGHT</td>
<td>20V</td>
<td>+5VDC</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>DK503</td>
<td>NO BACKLIGHT</td>
<td>200mV</td>
<td>+9VDC</td>
<td>NONE</td>
<td></td>
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<tr>
<td>DK504</td>
<td>NO BACKLIGHT</td>
<td>2V</td>
<td>+9VDC</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>DK505</td>
<td>NO BACKLIGHT</td>
<td>20V</td>
<td>+9VDC</td>
<td>NONE</td>
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</tbody>
</table>

**C-TON INDUSTRIES**
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- USA (603) 471-0158
- EMAIL: INFO@CTONINDUSTRIES.COM
Specifications Installation and Operating Instructions

LCD Digital Panel Meters

3 1/2 Digit LCD - Snap-in Mount

BEZEL MOUNT DIMENSIONS

PANEL CUTOUTS

BEZEL MOUNT DIMENSIONS

- 0.09" (2.3mm)
- 0.95" (24.1mm)
- 0.3" (8mm)

PANEL CUTOUTS

- 2.13" (54.1mm)
- 0.88" (22.4mm)
- 2.298" (58.4mm)
- 0.98" (24.9mm)

MNTG BACKLIT A DIM. B DIM. C DIM.
5B NO 0.33" (8.4mm) 2.45" (62.2mm) 1.03" (26.2mm)
5B YES 0.52" (13.2mm) 2.45" (62.2mm) 1.03" (26.2mm)
5S NO 0.45" (11.4mm) 2.51" (63.8mm) 1.10" (28mm)

NOTES:
1. Mounting studs (2) are #2-56, length 0.5 (13) min. Snap in Bezel Mount does not have mounting studs.
2. Backlight Option is on 0.50" (12.4mm) wide x 0.22" (5.4mm) high t=b

WIRING CONNECTIONS

<table>
<thead>
<tr>
<th>PIN #</th>
<th>PIN NAME</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>V+</td>
<td>POSITIVE DPM POWER SUPPLY</td>
</tr>
<tr>
<td>2</td>
<td>V-</td>
<td>NEG POWER FOR 9V OR ±5V DPMS</td>
</tr>
<tr>
<td>3</td>
<td>NC</td>
<td>NO PIN</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>NEGATIVE POWER FOR +5V DPMS</td>
</tr>
<tr>
<td>5</td>
<td>COM</td>
<td>ANALOG COMMON</td>
</tr>
<tr>
<td>6</td>
<td>INLO</td>
<td>DISPLAY INPUTS: DISPLAY NEGATIVE</td>
</tr>
<tr>
<td>7</td>
<td>INHI</td>
<td>IF INHI IS LOWER THAN INLO</td>
</tr>
<tr>
<td>8</td>
<td>RFL (CLK)</td>
<td>NEG REFERENCE INPUT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(AND OPTIONAL HOLD)</td>
</tr>
<tr>
<td>9</td>
<td>RFH</td>
<td>POSITIVE REFERENCE INPUT</td>
</tr>
<tr>
<td>10</td>
<td>ROH</td>
<td>INTERNAL REFERENCE OUTPUT</td>
</tr>
<tr>
<td>11</td>
<td>D3</td>
<td>DECIMAL POINT = 1XX.X*</td>
</tr>
<tr>
<td>12</td>
<td>D2</td>
<td>DECIMAL POINT = 1XX.X*</td>
</tr>
<tr>
<td>13</td>
<td>D1</td>
<td>DECIMAL POINT = 1.XXX*</td>
</tr>
</tbody>
</table>

*Connect to Pin 1