Data Sheet • Mann Series

3½ Digit Indicator

DI350 Current/Voltage Inputs

- Bright 3½ digit LED display in engineering units
- Current or Voltage signal inputs
- Integral power supply for active input devices
- Linearity ±0.1% of span
- AC or DC powered
- Fully Isolated
- 1/8 DIN standard front with IP65 rating
- Removable, screw type, terminal blocks
### General Technical Data

#### Display
- **Type**: Full 3½ digit, red 14.2 mm LED
- **Scaling**: To display in % or engineering units
  - -9999 to +999
  - +1000, +10.0, +100.0
- **Decimal point setting**: 1.000, 10.00, 100.0

#### Inputs
- **Type**: Analogue current or voltage signals (as ordered)
- **Standard ranges**: 4-20mA / 0-10V (Other ranges are available on request)
- **Input Impedance**: 22 Ω (current inputs) or 1M Ω (voltage inputs)
- **Transducer supply**: 24Vdc (to 25 mA) output

#### Adjustments
- **Type**: 22-turn potentiometers
- **Zero**: ±1200 counts
- **Span**: from 20 to 2100 counts

#### Power supply
- **Type**: AC or DC powered
- **AC**
  - 110Vac @ 47-63Hz nominal (range 100-132Vac)
  - 240Vac @ 47-63Hz nominal (range 200-264Vac)
- **DC**
  - 24Vdc nominal (range 12-35Vdc)
  - AC 6VA or 4.5W at 24Vdc

#### Insulation Co-ordination
- **Ports**: Input / Power Supply
- **Rated Insulation Voltage**: 300Veff
- **Overvoltage Category**: III
- **Impulse Withstand**: 4kV (1.2 / 50)
- **Isolation**: 2 kV (between ports)

#### Environmental Conditions
- **Operating temperature**: 0 to 60 °C
- **Storage temperature**: -25 to +70 °C
- **Pollution Degree**: 2
- **Relative humidity**: 10–90% (non-condensing)

#### Performance
- **Linearity**: Better than 0.1% typical
- **Temperature drift**: Less than 0.02% span/°C
- **Long term drift**: 0.1% per 10,000 hours

#### Housing
- **Type**: Double Insulated Panel Mount Enclosure
- **Front bezel**: IP65 rated 1/8 DIN format
- **Dimensions**: See mechanical drawing
- **Weight**: 0.24kg

### Connections

#### Terminal Signal
<table>
<thead>
<tr>
<th>Terminal</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24Vdc Sensor Supply</td>
</tr>
<tr>
<td>2</td>
<td>0Vdc Sensor Supply</td>
</tr>
<tr>
<td>3</td>
<td>Input +</td>
</tr>
<tr>
<td>4</td>
<td>Input –</td>
</tr>
<tr>
<td>5</td>
<td>Not used</td>
</tr>
<tr>
<td>6</td>
<td>Not used</td>
</tr>
<tr>
<td>7</td>
<td>Live (+)</td>
</tr>
<tr>
<td>8</td>
<td>Neutral (–)</td>
</tr>
</tbody>
</table>

#### Ordering Information
- **Type** (Model Input/Display/Supply)
- **Cat. No.**
  - DI350 0-10V/0-100.0/24Vdc: 7940011570
  - DI350 4-20mA/0-100.0/24Vdc: 7940010185

For other ranges please specify DI350 1/2/3 where:
- 1 = Input range
- 2 = Display range
- 3 = Power Supply Voltage

### Approvals
- **Mark**: E256486
- **Standards**
  - CAN/CSA C22.2 No. 1010.1:92
  - UL61010-1: 2004
  - LV Directive
  - EN50178:1998
  - EN61326:1998 + A2
  - 24Vdc Powered units only