M430 Integral Digital Display

- Bright Red 4-digit LED Display
- Resolution -1,999 to +9,999
- Field scaleable to user's requirements
- Transducer mounted, small size
- Powered by transducer signal
- Up to 2 switch contacts
- Sealed to IP65, NEMA 4X
- Rotatable display and connector

DESCRIPTION

The M430 is a universal plug-on LED display suitable for use on transducers that have a DIN 43650, connector and 4-20mA or 0-10 Vdc output. The plug-on display simply fits between the plug and socket on any DIN 43650 (Form A) connector, The power is supplied from the voltage or current signal of the transducer. The unit is user-programmable from two buttons on the front panel enabling scaling and decimal point position. All are easily configured through the menu and configuration is stored in an EEPROM, ensuring that the programming is not lost in the event of power failure.

The display can be rotated through 300° for use in different installation positions, ensuring flexibility.
**M430 Integral Digital Display**

**Ordering Example:** M430-D-0-A-EC2

<table>
<thead>
<tr>
<th>D</th>
<th>0</th>
<th>A</th>
<th>EC2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>Switch</td>
<td>Display</td>
<td>Connector</td>
</tr>
<tr>
<td>D=4-20 mA</td>
<td>0=No contact</td>
<td>A=User configured</td>
<td>EC2=DIN 43650 with</td>
</tr>
<tr>
<td>F=0-10 VDC</td>
<td>1=One contact</td>
<td>X=Factory set</td>
<td>mate</td>
</tr>
<tr>
<td></td>
<td>2=Two contact ¹</td>
<td>(specify range)</td>
<td>ECB=Binder 723 with</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>mate</td>
</tr>
</tbody>
</table>

¹Must be used with Binder connector, 4-20mA only

**Technical Specifications**

- **Analog input signal:** 4-20mA (two wire) or 0-10Vdc (three wire)
- **Supply voltage:**
  - 2-wire: < 6 V (voltage drop from current look)
  - 3-wire: 15-36 Vdc (display wired in parallel with transmitter)
- **Contacts**: 0, 1 or 2 independent PNP outputs
- **Contact rating**: 125 mA, short-circuit resistant
- **Repeatability**: <±0.1% FSO
- **Switching frequency**: Max. 10 Hz
- **Switching cycles**: >100 x 10⁶
- **Delay time**: 0-100 seconds (programmable)

- **Electrical Protection**
  - **Short circuit protection**: Permanent
  - **Reverse polarity protection**: No damage but also no function

- **Display**
  - **Type**: 4-digit, red LED, 7mm height, width, 4.85mm
  - **Range**: -1999 to +9999
  - **Accuracy**: 0.1% ± 1 digit
  - **Update time**: 0.3 to 20 seconds (programmable)

- **Mechanical Stability**
  - **Vibration**: 10 g RMS (20-2000 Hz)
  - **Shock**: 100 g / 11 ms

- **Temperature**
  - **Operating**: -23 to +185°F (-25 to +85°C)
  - **Storage**: -40 to +185°F (-40 to +85°C)