

# DPI-160-1

## SINGLE CHANNEL BAR-GRAPH INDICATOR

### Features

- Universal Input
- Multi Color Bar-Graph Display
- Open Sensor Indication
- 101 segment Bar-Graph Indication
- Software Calibration
- Cold junction Compensation for thermocouple input
- Single Channel

### Description

Electronet Series DPI-160-1 is single channel Tri-color Bar-Graph Indicator specially designed for various industrial applications. These can be used for monitoring parameters like Temperature, Humidity, Pressure, Flow, Level etc. The input & measuring range are able to set through the keypad on front fascia and control output is available at the rear terminals. Retransmission output & communication port with Bar-Graph indication are additive features of DPI-160-1.



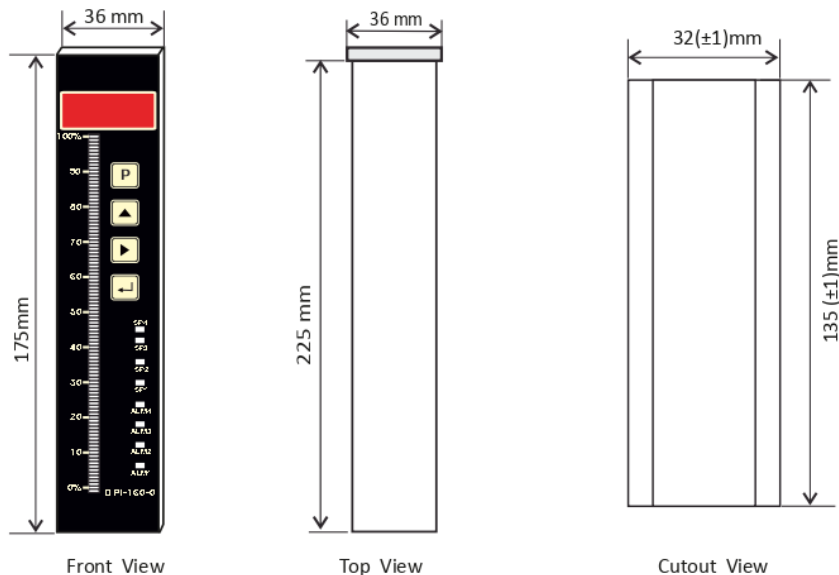
### Technical Specifications

| Performance Characteristics |                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------|
| No. Of Bar-Graph Segments   | 101 Nos.                                                                                                        |
| No. of Channels             | 01 No.                                                                                                          |
| Input                       | 1) Linear : 4-20mA, 0-20mA, 0-6V, 1-5V, -20uA to +20uA                                                          |
|                             | 2) RTD : PT-100, PT-200(-100°C to 400°C)                                                                        |
|                             | 3) Thermocouple : J, K, R, S, T, B, E.                                                                          |
|                             | 4) Current (0-20 mA / 4-20 mA)                                                                                  |
|                             | 5) Voltage (0-5 V DC / 0 - 0.1V DC)                                                                             |
| Display                     | 1) 4 Digit, 0.3", 7 Segment red LED for process variable.                                                       |
|                             | 2) 101 Bi-color LED for Bar-Graph display.                                                                      |
| Range                       | Programmable for mA & Voltage (-999 to +9999) & Fixed for RTD & Thermocouple                                    |
| Accuracy                    | 1) For R, S type Thermocouple, better than $\pm 0.5\%$ of F. S.                                                 |
|                             | 2) For rest inputs, better than $\pm 0.1\%$ of F. S.                                                            |
| Open Sensor Indication      | 'OPEN' on display for RTD & Thermocouple input                                                                  |
| Power Supply                | 1) 90 - 250 V AC 2) 24 V DC (+/- 10%)                                                                           |
| Power Consumption           | < 10 VA                                                                                                         |
| Temperature Drift           | < 0.01% of F. S. per °C change                                                                                  |
| Response Time               | < 100 mSec                                                                                                      |
| Isolation                   | 1.4 KV between Input, Output & Power Supply                                                                     |
| Enclosure                   | DIN Standard                                                                                                    |
| Base Size                   | 36 mm (H) X 175 mm (W)                                                                                          |
| Mounting                    | 1) DIN Rail Mount 2) Field Mount                                                                                |
| Weight                      | 2 kg (Approx.)                                                                                                  |
| Operating Conditions        | Temperature -20 to 55 °C / Humidity 5 to 95% non condensing                                                     |
| <b>OPTIONAL</b>             |                                                                                                                 |
| Transmitter Power Supply    | 24 V DC 30 mA, 24 V DC 100 mA                                                                                   |
| Retransmission Output       | 4 - 20 mA / 0 - 5 V, Isolated per channel                                                                       |
| Alarm Output                | Potential free Relay Contact - 2 nos. Configurable for high, low, high-high, low-low (1 c/o, 1 Amp. @ 230 V AC) |

# DPI-160-1

SINGLE CHANNEL BAR-GRAPH INDICATOR

## Dimensional Drawing



## Ordering Information

Sample Order Code : DPI 160-1-A1-B1-C1-D1

| Parameter |              | Code | Description       |
|-----------|--------------|------|-------------------|
| A         | Input        | A1   | 90 to 250 VAC     |
|           | Power Supply | A2   | 24 V DC (+/- 10%) |
| B         | Input        | B1   | 4 to 20 mA        |
|           |              | B2   | 0 to 5V           |
|           |              | B3   | RTD               |
|           |              | B4   | Thermocouple      |
|           |              | B5   | Current           |
|           |              | B6   | Voltage           |
|           |              | B7   | Universal         |
|           |              | BY   | Other             |
| C         | Output       | C1   | 4 to 20 mA        |
|           |              | C2   | 0 to 5V           |
|           |              | CX   | NA                |

| Parameter |                       | Code | Description    |
|-----------|-----------------------|------|----------------|
| D         | Alarm or Relay Output | D1   | 1 Relay Output |
|           |                       | D2   | 2 Relay Output |
|           |                       | DX   | NA             |

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.
- This product is meant for laboratory/Process application only and not for custody transfer application.

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