

## LARGE DISPLAY DIGITAL TEMPERATURE / PROCESS INDICATOR (MODEL DPI-4000-D & DPI-8000-D)



**DPI-4000-D**



**DPI-8000-D**

### MODEL WISE DESCRIPTION

| Model      | Product Description                                          | Size (mm.)      |
|------------|--------------------------------------------------------------|-----------------|
| DPI-4000-D | Large Display 4 digit 4" height<br>Digital Process Indicator | 500 x 250 x 150 |
| DPI-8000-D | Large Display 4 digit 8"<br>height Digital Process Indicator | 760 x 340 x 150 |

### DESCRIPTION

Libratherm offers economic model large display digital temperature/process indicator to monitor the temperature/ process value from long distance or height. The design is based on Analog and Digital circuit using 3 and ½ digit DPM or 4 digit DPM and 7 segment LED display modules.

The indicator is housed in a sturdy powder coated metal enclosure and can be mounted on wall or on ceiling or on the shelf at a height. It accepts factory set thermocouple, Pt-100 or universal analog signal of 4-2mA, 0-20mA, 0-5VDC or 0-10VDC which can be scaled and calibrated as per user requirement in the range of 0 to 1999 or -1999 to 1999 or 0 to 9999 or -1999 to +9999 counts.

## FEATURES

- Solid state electronic design.
- 3 and ½ digit or 4 digit DPM.
- Factory set input type – as per user's requirement.
- Choice of 4" and 8" red 7 segment - digit size for long distance visibility.
- Wall mounted, Ceiling mounted or desk mounted facility.

## TECHNICAL SPECIFICATIONS

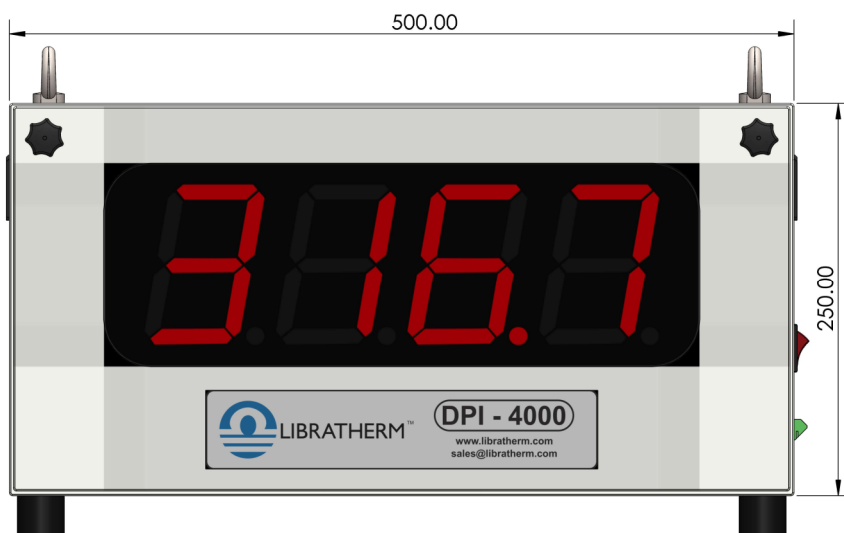
|                                  |                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Design</b>                    | Solid state design using 3 and ½ digit and 4 digit DPM                                                                                                                                                                               |
| <b>Signal Input</b>              | Standard Thermocouples (J, K type), Pt-100,<br>0-20mA, 4-20mA,(0-5)VDC, (0-10)VDC – user selectable using DIP switch                                                                                                                 |
| <b>Display</b>                   | 4 digit – 4" seven segment red LED display (DPI-4000-D)<br>4 digit – 8" seven segment red LED display (DPI-8000-D)                                                                                                                   |
| <b>Display Range</b>             | For Process Input :<br>i) -1999 to 9999<br>For Temperature Input :<br>ii) 0 to 400°C (J type) / 0 to 1200°C (K type)<br>iii) 0.0 to 199.9°C / -100.0 to 400.0 °C (RTD)<br>iv) For any other input calibration range to be specified. |
| <b>Calibration Range</b>         | User to specify the desired calibration range. (On site calibration adjustment possible using ZERO and SPAN potentiometer)                                                                                                           |
| <b>Resolution</b>                | 1 count, 0.1 count, 0.01 count or 0.001 count (user to specify– subject to selected input type)                                                                                                                                      |
| <b>Accuracy</b>                  | i) Better than +/-0.5% to +/- 1% for the temperature input in the specified range.<br>ii) Absolute to the process input.                                                                                                             |
| <b>Distance between 2 digits</b> | Sufficient to identify each digit from long distance.<br>Each digit is easily replaceable.                                                                                                                                           |
| <b>Aux. Supply</b>               | 230AC +/- 10%, 50/60 Hz (110VAC or 24AC / 24VDC – optional)                                                                                                                                                                          |
| <b>Enclosure</b>                 | Dust free – Metallic powder coated (IP 64)                                                                                                                                                                                           |
| <b>Size (mm.)</b>                | 500(W) x 250(H) x 150(D)- 4" LED display<br>760(W) x 340(H) x 150(D)- 8" LED display                                                                                                                                                 |
| <b>Operating conditions</b>      | Temperature: 60 °C , RH 90% max.                                                                                                                                                                                                     |
| <b>Weight</b>                    | 6.0kg (approx.) for DPI-4000 and<br>10.0 Kg (approx.) for DPI-8000                                                                                                                                                                   |
| <b>Mounting</b>                  | Wall mounting key holes, Ceiling mounted hooks or can be placed on a shelf.                                                                                                                                                          |
| <b>Enclosure</b>                 | MS – powder coated with Siemens gray texture colour.                                                                                                                                                                                 |
| <b>Technical Documents</b>       | Each display unit will be supplied along with the detail user's manual, wiring diagram, calibration report.                                                                                                                          |

## ORDERING INFORMATION

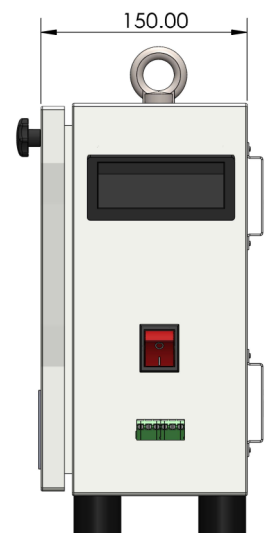
| Model      | Standard Input type (A)                | Part No. (DPI-4000) | Part No. (DPI-8000) |
|------------|----------------------------------------|---------------------|---------------------|
| DPI-4000-D | J type T/C (Fe/Con) : 0 to 400°C (A1)  | 1101-4              | 1101-8              |
| DPI-8000-D | K T/C (Cr/Al) : 0 to 1200°C (A2)       | 1102-4              | 1102-8              |
|            | RTD1 : 0.0 to 199.9°C (A3)             | 1103-4              | 1103-8              |
|            | RTD2 : -50.0 to 199.9°C (A4)           | 1104-4              | 1104-8              |
|            | 0-5V : (-1999 to 9999) (A5)            | 1105-4              | 1105-8              |
|            | 0-10V : (-1999 to 9999) (A6)           | 1105-4              | 1105-8              |
|            | 4-20mA : (-1999 to 9999) (A7)          | 1105-4              | 1105-8              |
|            | 0-20mA : (-1999 to 9999) (A8)          | 1105-4              | 1105-8              |
|            | Please specify if any other input (A9) | 1106-4              | 1106-8              |

## DIMENSIONAL DRAWING

DPI-4000-D



FRONT VIEW

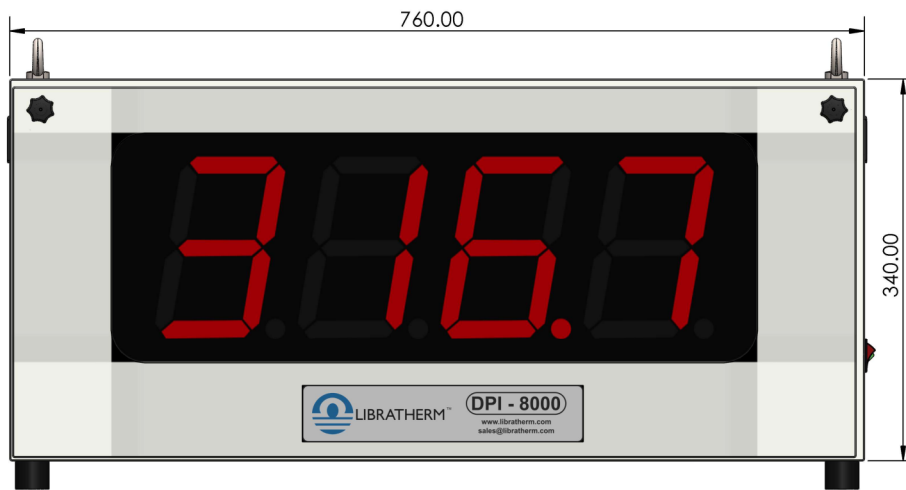


SIDE VIEW

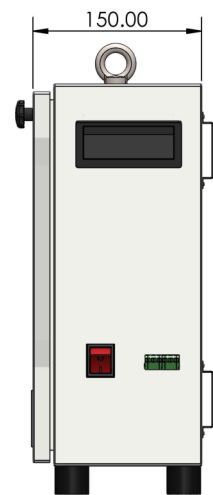
All dimensions are in mm

## DIMENSIONAL DRAWING

DPI-8000-D



FRONT VIEW



SIDE VIEW

All dimensions are in mm