

## SMART TEMPERATURE TRANSMITTER

### Special Features:

- Temperature Compensated
- HART Communication
- 90° Horizontal Tilt Display
- Explosion Proof with Intrinsic Safety
- Display of Temperature and Current
- 0 - 100% Bar Graph Indication
- Zero Transfer, Range Setting Through Keypad



### Overview:

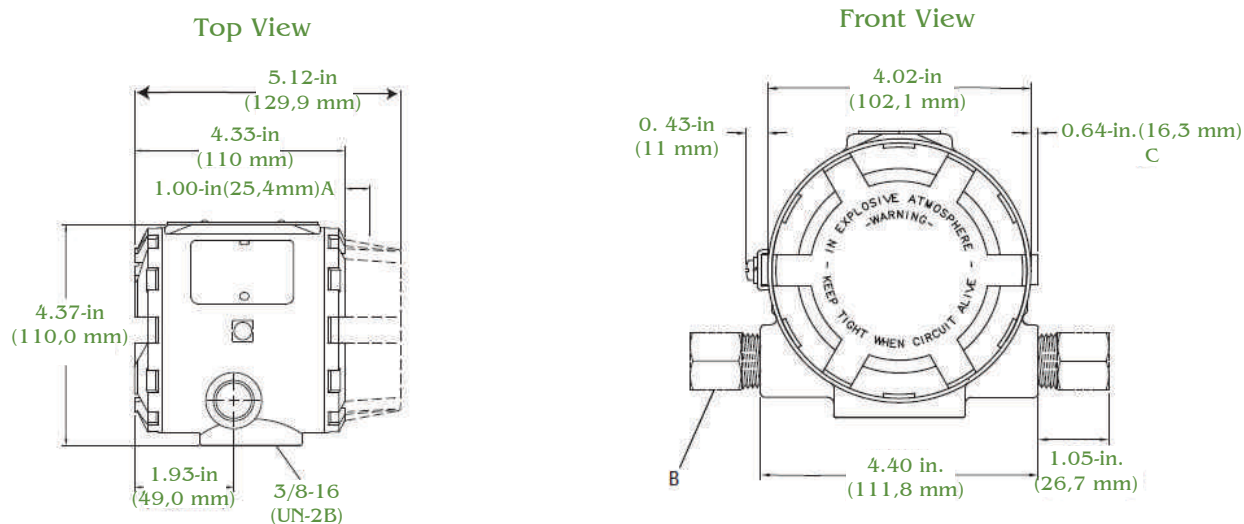
Omicron's APT2000 SMART temperature transmitter provides a kind of reliable measuring way. It is used for measuring temperature and convert the value of above into current signal output or digital protocol output. Being microprocessorbased, the electronic circuit is extremely versatile and accurate. Combined with the sensor precision, it provides a high accuracy and high rangeability. Transmitter performance is improved by continuous monitoring of the temperature and corresponding compensation. A local display permits easy reading of data. The transmitter accepts various sensors including direct resistance, direct voltage and thermal inputs.

### Performance Specifications:

|                       |   |                                                  |
|-----------------------|---|--------------------------------------------------|
| Media Compaibility    | : | Liquids, Gases and Steam                         |
| Input Sensor          | : | RTD : Pt50 / Pt100 / Pt1000 / Cu50 / Cu100       |
|                       | : | T/C : B / E / J / K / N / R / S Type             |
|                       | : | Analog : Thermal Resistance / mV / Voltage Input |
| Measuring Ranges      | : | -200° ~ 1850°C                                   |
| Output Signal         | : | 4 - 20mA, 2 Wire, HART Superimposed              |
| Power Supply          | : | 12 - 45V DC                                      |
| Operating Temperature | : | -40° ~ 120°C                                     |
| Operating Humidity    | : | 5 ~ 95% RH                                       |
| Standard Accuracy     | : | 0.1% of F.S                                      |
| Optional Accuracy     | : | 0.06% of F.S                                     |
| Premium Accuracy      | : | 0.04% of F.S,                                    |
| Process Connection    | : | 1/2" NPT(M)                                      |
| Units Available       | : | mA / °C / °F / °K                                |
| Enclosure Housing     | : | Die cast Aluminium                               |
| Mounting              | : | Bottom Mounting                                  |
| Sensor                | : | AISI 316LSS / Monel / Hastalloy C / Tantalum     |
| Flange / Adaptor      | : | AISI 316LSS / Monel / Hastalloy C / Carbon Steel |
| Wetted O-Ring         | : | Viton / Buna N                                   |
| Seal O-Ring           | : | Viton / Buna N                                   |
| Agency Approval       | : | CE, ATEX                                         |

## SMART TEMPERATURE TRANSMITTER

### ⚙️ Dimensions :



## HOW TO ORDER

### ⚙️ Basic Model:

APT2000

### ⚙️ Output:

S

- E 4 - 20mA DC
- S 4 - 20mA DC, 2 Wire, HART Superimposed

### ⚙️ Options:

B3

- M1 0 - 100% Analogue Indicator
- M3 4 1/2 LCD Display

Ordering Example : APT2000-S-B3