



PP

PVDF

316L



SERIES : PPT

CONNECTION : 1 1/4" G Type Thread

## FEATURES

- Display Changes from Green to Red (Alarm Status)
- Time to Change Bags-Clean Filter
- Highly Accurate 0.25% of Full Scale
- Ceramic Diaphragm 316 SS 1/2" NPT Process Port
- Display Pressure Units PSI, Bar, Kg/Cm2, KPA, MPA, In Hg
- Two (2) 3 Amp Relay Alarm Functions
- 4-20mA Analog Output Function (Remote Display)
- Digital RS-485 Interface Function (optional)
- IP66 NEMA 4X
- Plastic Gauge Isolator For Corrosive Services, Slurries,
- Heavy Sediment (optional)

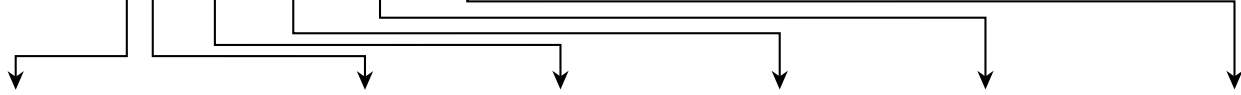
## SPECIFICATIONS

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Pressure sensor       | Ceramic (AL <sub>2</sub> O <sub>3</sub> 96%)            |
| Measured fluids       | Water or Chemical fluid or gases                        |
| Applied temperature   | -40 ~ +125°C                                            |
| Accuracy              | ± 1.0% of F.S. @ 25°C max.                              |
| Repeatability         | <±0.5% FS max.                                          |
| Operating voltage     | 10~30VDC                                                |
| Current consumption   | 60mA max.                                               |
| Pressure unit         | Psi Bar KPa Kg   cm <sub>2</sub> selectable             |
| Pressure display      | 0~9999 (Green   Red changeable)                         |
| Alarm display         | PRT : 0~9999 *2 (Red color)<br>PRS : 0~9999 (Red color) |
| Communication         | RS-485 RTU optioned                                     |
| Transmitter           | 4~20mA or 0~10V optioned                                |
| Output method         | Two NPN or Two PNP or Two relay                         |
| Output current        | 150mA max.                                              |
| Relay contact rated   | 5A/250 VAC max.                                         |
| Over pressure         | 200% of FS min.                                         |
| Burst pressure        | 300% of FS min.                                         |
| Zero drift            | @ 20 °C ± 0.03% FSO                                     |
| Sensitivity drift     | @ 20 °C ± 0.03% FSO                                     |
| Resistance of output  | 50Ω max.                                                |
| Thermal drift         | ± 0.03 % FS /°C                                         |
| Material of housing   | ABS                                                     |
| Operating temperature | - 25 ~ +85°C                                            |
| Protection class      | IP- 64                                                  |
| Approval              | CE RoHS                                                 |

## Color of Display

| Alarm status          | No Alarm                                      | Alarm 1 or Alarm 2 ON                       |
|-----------------------|-----------------------------------------------|---------------------------------------------|
| Pressure display (PV) | 1 > Green color<br>2 > Display Pressure value | 1 > Red color<br>2 > Display Pressure value |

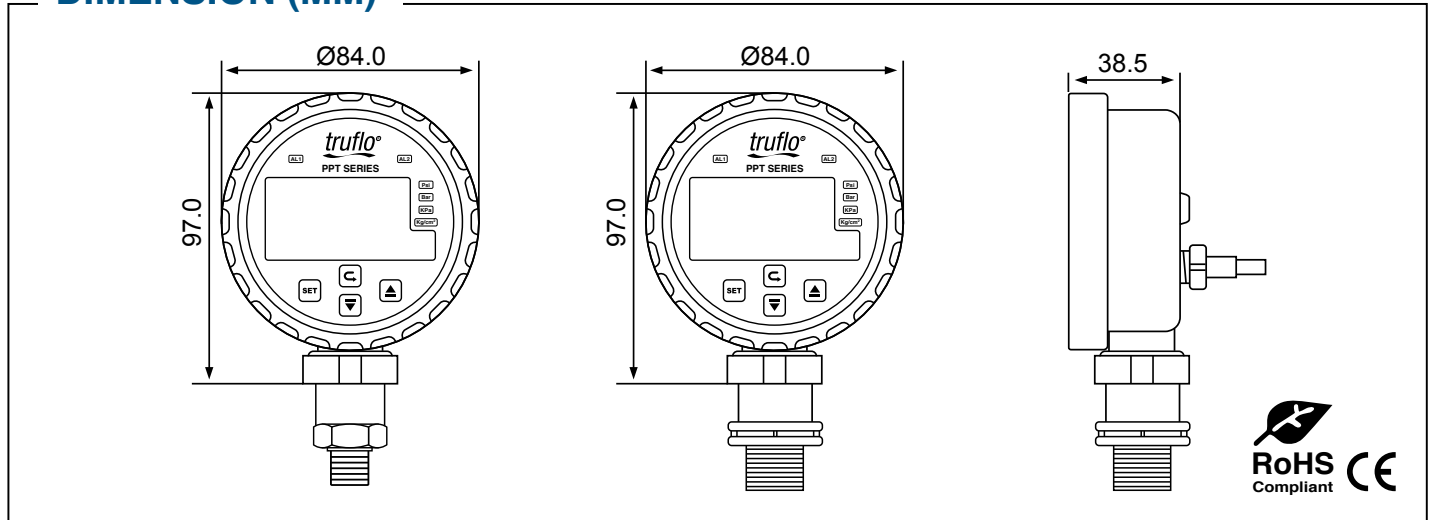
PRT - 10 R - mA - SUS - 14PT - M12



| Pressure Range                                                                                                                                                                                                                                | Output Method                         | Attachment Function                                               | Port material                          | Tooth Rule                                                                                  | Connection Method                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------|
| C1 = -1.00 ~ 1.00 Bar (-14.5 ~ +14.5 Psi)<br>C10 = -1.00 ~ 10.00 Bar (-14.5 ~ 145.0 Psi)<br>10 = 0.00 ~ 10.00 Bar (0 ~ 145.0 Psi)<br>100 = 0.0 ~ 100.0 Bar (0 ~ 1450 Psi)<br>400 = 0 ~ 400 Bar (0 ~ 5800 Psi)<br>600 = 0 ~ 600 Bar (8700 Psi) | P = PNP*2<br>N = NPN*2<br>R = Relay*2 | RS = with RS-485<br>non = without RS-485<br>mA = 4~20mA V = 0~10V | TF = PVDF<br>PP = PP<br>SUS = SUS-316L | TF or PP : 12NPT = 1/2" NPT<br>12FNPT = 1/2" FNPT<br>SUS : 14PT = 1/4" PT<br>18PT = 1/8" PT | 2M = Lead wire 2m<br>M12 = M12 connection |

600 = 0 ~ 600 Bar (8700Psi)

### DIMENSION (MM)



### Wiring Diagram

| PNP or NPN Output                                                               | Relay output                                                                               | PNP or NPN output with RS-485                                                                                       | NPN or PNP output with 4~20mA or 0~10V                                                                                 | Relay output with 4~20mA or 0~10V                                                                                 |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1> Brown : +V<br>2> White : PNP or NPN<br>3> Blue : 0V<br>4> Black : PNP or NPN | 1> Brown : +V<br>2> White : R2 (NO)<br>3> Blue : 0V<br>4> Black : R1 (NO)<br>5> Grey : Com | 1> Brown : +V<br>2> White : NPN or PNP<br>3> Blue : 0V<br>4> Black : NPN or PNP<br>5> Grey : RS-<br>6> Orange : RS+ | 1> Brown : +V<br>2> White : NPN or PNP<br>3> Blue : 0V<br>4> Black : NPN or PNP<br>5> Grey : 0V<br>6> Orange : mA or V | 1> Brown : +V<br>2> White : R2 (NO)<br>3> Blue : 0V<br>4> Black : R1 (NO)<br>5> Grey : Com<br>6> Orange : mA or V |

### Display Range

| Unit  | Bar           | Kg/cm <sup>2</sup> | Psi            | KPa            |
|-------|---------------|--------------------|----------------|----------------|
| Range |               |                    |                |                |
| 「C1」  | -1.00 ~ 1.00  | -1.02 ~ 1.02       | -14.5 ~ 14.5   | -100.0 ~ 100.0 |
| 「C10」 | -1.00 ~ 10.00 | -1.02 ~ 10.20      | -14.50 ~ 145.0 | -100.0 ~ A00.0 |
| 「10」  | 0.00 ~ 10.00  | 0.00 ~ 10.20       | 0.0 ~ 145.0    | 0.0 ~ A00.0    |
| 「100」 | 0.0 ~ 100.0   | 0.0 ~ 102.0        | 0 ~ 1450       | 0 ~ A000       |
| 「400」 | 0 ~ 400       | 0 ~ 408            | 0 ~ 5800       | non            |
| 「610」 | 0 ~ 600       | 0 ~ 612            | 0 ~ 8700       | non            |