

- No Programming Required
- Excellent Chemical Resistance
- Perfect for Dosing | Pulsating Flows

PP

PVDF

316L

RoHS  
Compliant

SERIES : PRD

CONNECTION : 1 ¼" 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 ½" NPT Process Port
- Display Pressure Units PSI, Bar, Kg/Cm², KPA
- Two (2) 3 Amp Relay Alarm Functions
- 4-20mA Analog Output Function
- Digital RS-485 Interface Function (optional)
- IP66 NEMA 4X
- Heavy Sediment (optional)

## Key function

Alarm Setting : Press  key 5 seconds (Lk.9)Function Setting : Press  key 5 seconds (Lk.9)Communication Setting : Press  &  5 seconds (Lk.9)Zero Setting : Press  &  5 seconds (Lk.A)

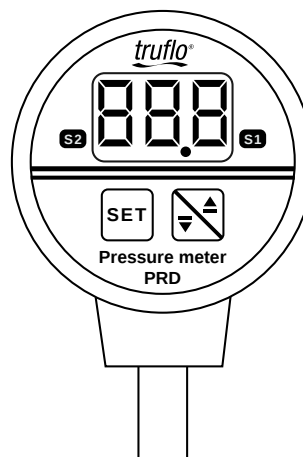
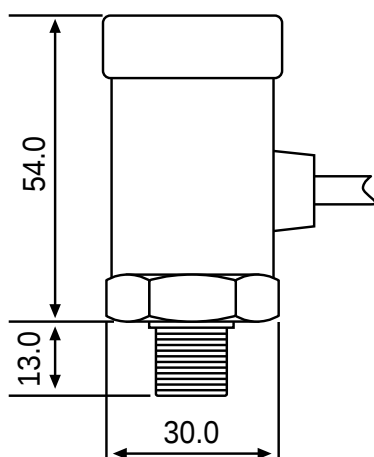
## SPECIFICATIONS

|                       |                                              |
|-----------------------|----------------------------------------------|
| Pressure Sensor       | Ceramic (AL <sub>2</sub> O <sub>3</sub> 96%) |
| Measured Fluids       | Water or Chemical fluid or gases             |
| Applied temperature   | -25 ~ +125°C                                 |
| Accuracy              | ± 1.0% of F.S. @ 25°C max.                   |
| Repeatability         | <±0.5% FS max.                               |
| Operating voltage     | 10~30VDC                                     |
| Current consumption   | 50mA max.                                    |
| Pressure unit         | Psi Bar KPa Kg/cm² Selectable                |
| Pressure Display (PV) | 0~F99                                        |
| 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   | 1A   30 VDC max.                             |
| Over pressure         | 200% of FS min.                              |
| Burst pressure        | 300% of FS min.                              |
| Material of housing   | Intensive ABS                                |
| Operating Temperature | -25 ~ +85°C                                  |
| Protection class      | IP- 64                                       |
| Approval              | CE RoHS                                      |

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

| Pressure Range                                                                                                                                                                                                                                     | Output Method                         | Attachment Function                                               | Port material                          | Tooth Rule                                                                                                                                       | Connection Method                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| C1 = -1.00 ~ 1.00 Bar (-16.0 ~ +16.0 Psi)<br>C10 = -1.0 ~ 10.0 Bar (-16.0 ~ 145 Psi)<br>10 = 0.0 ~ 10.0 Bar (0~145 Psi)<br>100 = 0.0 ~ A0.0 Bar (0~E50Psi) (non Kpa)<br>400 = 0.0 ~ 400 Bar (non Psi & Kpa)<br>600 = 0.0 ~ 600 Bar (non Psi & Kpa) | 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 = PT 1/4"-4.2<br>14PTS = PT 1/4" -0.6<br>14G = G 1/4" -4.2<br>14GS = G 1/4" -0.6 | 2M = Lead wire 2m<br>M12 = M12 Connection |

## 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                                                                                 |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 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 |

## Display Range

| Range \ Unit | Bar                | Kg/cm <sup>2</sup> | Psi            | KPa               |
|--------------|--------------------|--------------------|----------------|-------------------|
| 「C1」         | -1.00 ~ 1.00       | -1.02 ~ 1.02       | -14.5 ~ 14.5   | -A0.0 ~ A0.0      |
| 「C10」        | -1.0 ~ 10.0        | -1.02 ~ 10.20      | -14.50 ~ 145   | -100 ~ A00 (1000) |
| 「10」         | 0.0 ~ 10.0         | 0.0 ~ 10.2         | 0.0 ~ 145      | 0 ~ A00 (1000)    |
| 「100」        | 0.0 ~ A0.0 (100.0) | 0.0 ~ A2.0 (102.0) | 0 ~ E50 (1450) | non               |
| 「400」        | 0 ~ 400            | 0 ~ 408            | non            | non               |
| 「610」        | 0 ~ 600            | 0 ~ 612            | non            | non               |