

Quick Start PPT Series



PPT - H Series



PPT - V Series



CORROSION

Safety Information

1. De-pressurize and Vent System Prior to Installation or Removal.
2. Confirm Chemical Compatibility Before Use.
3. DO NOT Exceed Maximum Temperature or Pressure Specifications.
4. ALWAYS Wear Safety Goggles or Face-Shield During Installation and/or Service.
5. DO NOT Alter Product Construction.



Warning | Caution | Danger

Indicates a potential hazard. Failure to follow all warnings may lead to equipment damage, injury, or death



DO NOT Hand Tighten Only

Overtightening may permanently damage product threads and lead to failure of the retaining nut.



Note | Technical Notes

Highlights additional information or detailed procedure.

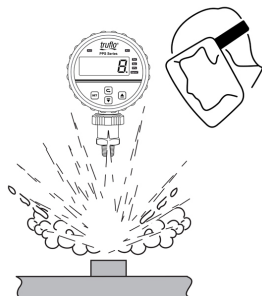


Do Not Use Tools

Use of tool(s) may damage product beyond repair and potentially void product warranty.



WARNING!



Personal Protective Equipment (PPE)

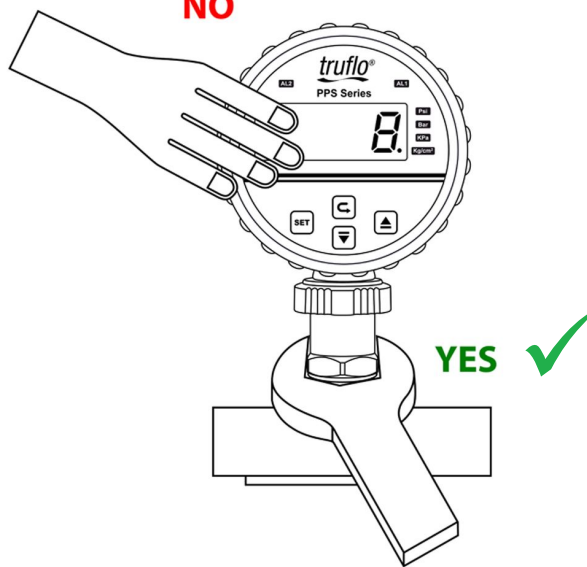
Always utilize the most appropriate PPE during installation and service of Truflor products.

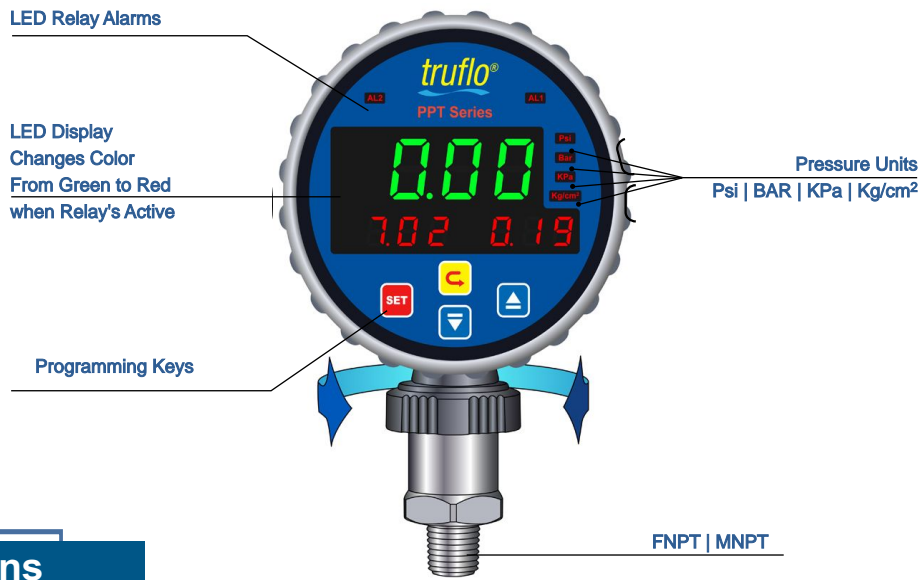


Pressurized System Warning

Sensor may be under pressure, take caution to vent system prior to installation or removal. Failure to do so may result in equipment damage and/or serious injury.

NO





Specifications

Sensor Diaphragm	Ceramic AL ₂ O ₃ 96%
Measured Fluids	H ₂ O Liquid Chemicals Gases
Storage Temperature	-4 - 176°F -20 - +80°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 ²
Display	0-9999 Green Red
Alarm Display	0-9999 Red
Communication	RS-485 RTU*
Transmitter Output	4-20mA 0-10V*
Relay Outputs	2 x 5 Amp 250 VAC 2 x NPN* 2 x PNP*
Current Output	150mA 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
Output Resistance	50Ω max.
Thermal Drift	± 0.03 % FS /°C
Materials	PP PVDF 316 SS
Operating Temperature	- 40 - +125°C
Protection Class	IP67 NEMA 4X
Approval	cULus CE RoHS

*Optional ** Material Dependent

Display Navigation

Home Screen	Press SET & ▲ 3 sec
Relay Set Points	Press SET 3 sec to Set Alarm Value
Communication Setting RS-485	Press SET & ▼ 3 sec
Zero Point Reset	Press ▲ & ▼ 3 sec **NOTE: Can only be accessed if Lock Setting is set to 11
Transmitter Range	Press ↻ 3 sec to Program

Programming Range } 4mA | 20mA

4mA = 0 | Default
20mA = 100 | Default**

** Changed to Conform to Application Ex.
Number Changed to max Pressure by following steps to the right.



Programming

STATUS	DISPLAY	RANGE	DESCRIPTION
Home Screen Press & Hold SET + ▲ 3 secs			Home Screen
Lock Setting Press SET ↓ Press ▲ ▼ To Change Value		0 - 99	Factory Unlocked: Lock = 10 **NOTE: If Lock # is Changed from the # 10 the Meter will be in Lockout Mode. If Lock Setting is set to 11, you can Only Change Zero Point.
Pressure Unit Selection Press SET ↓ Press ▲ ▼ To Change Value		0 - 3	ut.0 = Bar ut.1 = Kg/cm2 ut.2 = PSI } Default ut.3 = KPa
Relay Alarm Selection Press SET ↓ Press ▲ ▼ To Change Value		0 - 4	Refer to Alarm Mode Description Below
Alarm Delay Selection Press SET ↓ Press ▲ ▼ To Change Value		0 - 2	dn = 0 = Power on Delay dn = 1 = Alarm Delay dn = 2 = Power on + Alarm Delay
Alarm Time Delay Press SET ↓		0 - 99	Delay Time Secs.

Setting Relays

STATUS	DISPLAY	RANGE	DESCRIPTION
Home Screen Press & Hold 3 secs 			Current Pressure Value
Programming AL1 To Change Value 		0 - 9999	Set Point for Relay 1
Programming AL2 To Change Value 		0 - 9999	Set Point for Relay 2 **NOTE: AL2 must be set higher than AL1 If AL2 < AL1 PV will display Error while press SET key
Alarm Hysteresis To Change Value 		0 - 9999	Program Hysteresis of Relay Output

Alarm Output

Mode	Description
ALt.0	No Alarm
ALt.1	
	CV > (AL1) → R1/AL1 ON ; CV < (AL1 - H) → R1/AL1 OFF CV > (AL2) → R2/AL2 ON ; CV > (AL2+H) → R2/AL2 OFF
ALt.2	
	CV < (AL1 - H) → R1/AL1 ON ; CV > AL1 → R1/AL1 OFF CV > (AL2 + H) → R2/AL2 ON ; CV < AL2 → R2/AL2 OFF
ALt.3	
	CV > AL1 → R1/AL1 OFF ; CV < (AL1 - H) → R1/AL1 ON CV > AL2 → R2/AL2 OFF ; CV < (AL2 - H) → R2/AL2 ON
ALt.4	
	CV > (AL1) → R1/AL1 ON ; CV < (AL1 - H) → R1/AL1 OFF CV > AL2 → R2/AL2 ON ; CV < (AL2 - H) → R2/AL2 OFF

Legend

CV - Current Value || R1 - Relay 1 | R2 - Relay 2 || AL1 - Alarm 1 | AL2 - Alarm 2 || H - Hysteresis

Display

Alarm Status	Alarms OFF	Alarm 1 Alarm 2 ON
Home Screen	Green	Red

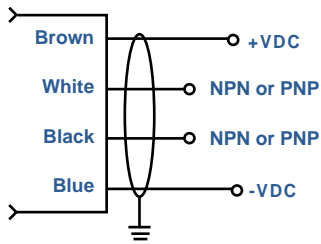
Wiring

DC Power Only

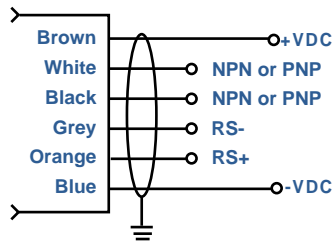
PNP NPN Output	Relay Output	PNP NPN Output RS-485	NPN PNP Output 4~20mA or 0~10V	Relay Output 4~20mA or 0~10V
Brown: +VDC White: PNP or NPN Blue: 0V Black: PNP or NPN	Brown: +VDC Black: R1 Blue: 0V White: R2 Gray: Com	Brown: +VDC White: NPN or PNP Blue: 0V Black: NPN or PNP Gray: RS Orange: RS+	Brown: +VDC White: NPN or PNP Blue: 0V Black: NPN or PNP Gray: RS Orange: mA	Brown: +VDC Black: R1 Blue: 0V Black: R2 Gray: Com Orange: mA

PPT - H

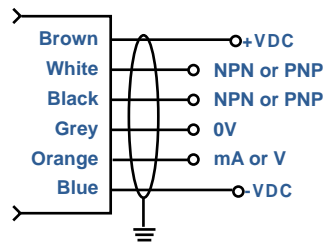
PNP or NPN Output



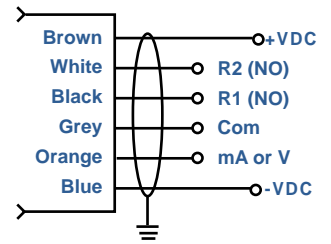
PNP or NPN output with RS-485



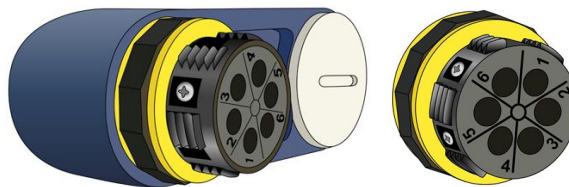
NPN or PNP output with 4~20mA or 0~10V



Relay output with 4~20mA or 0~10V

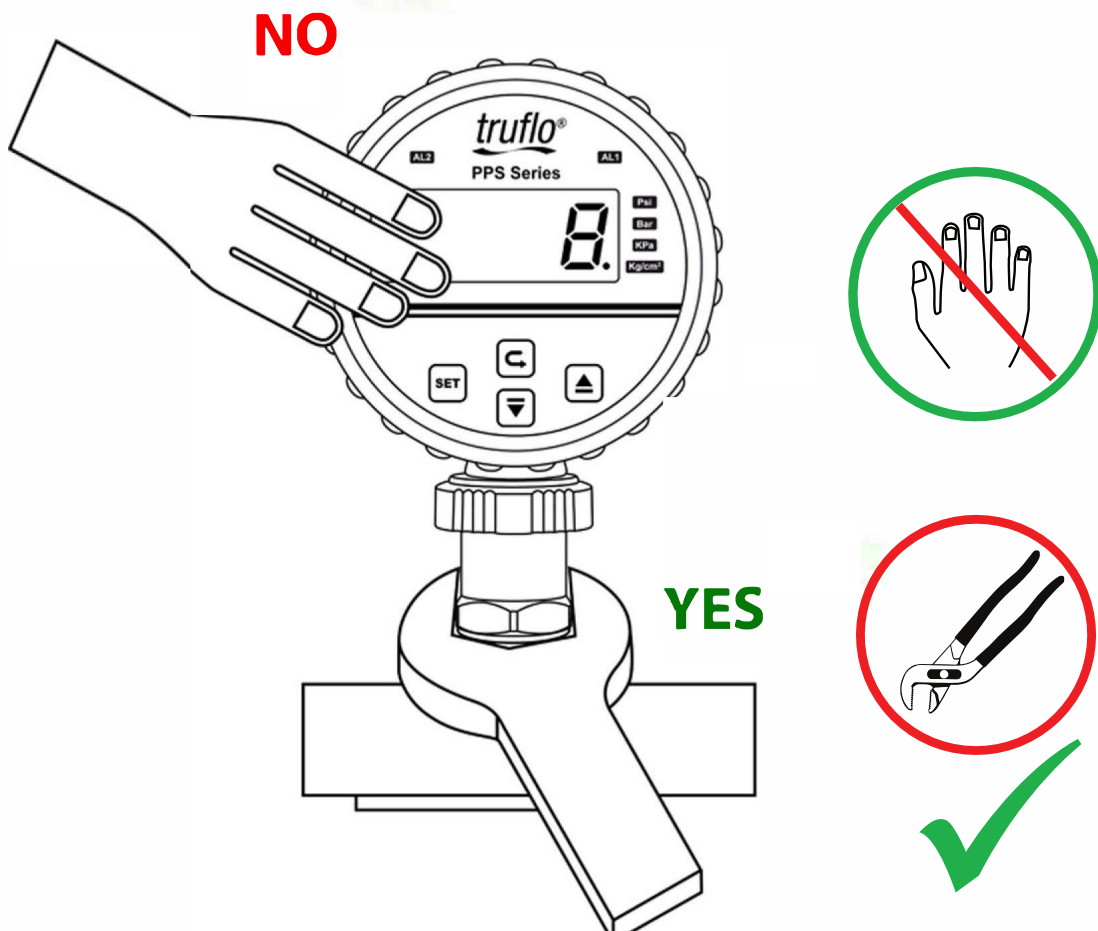


PPT - V

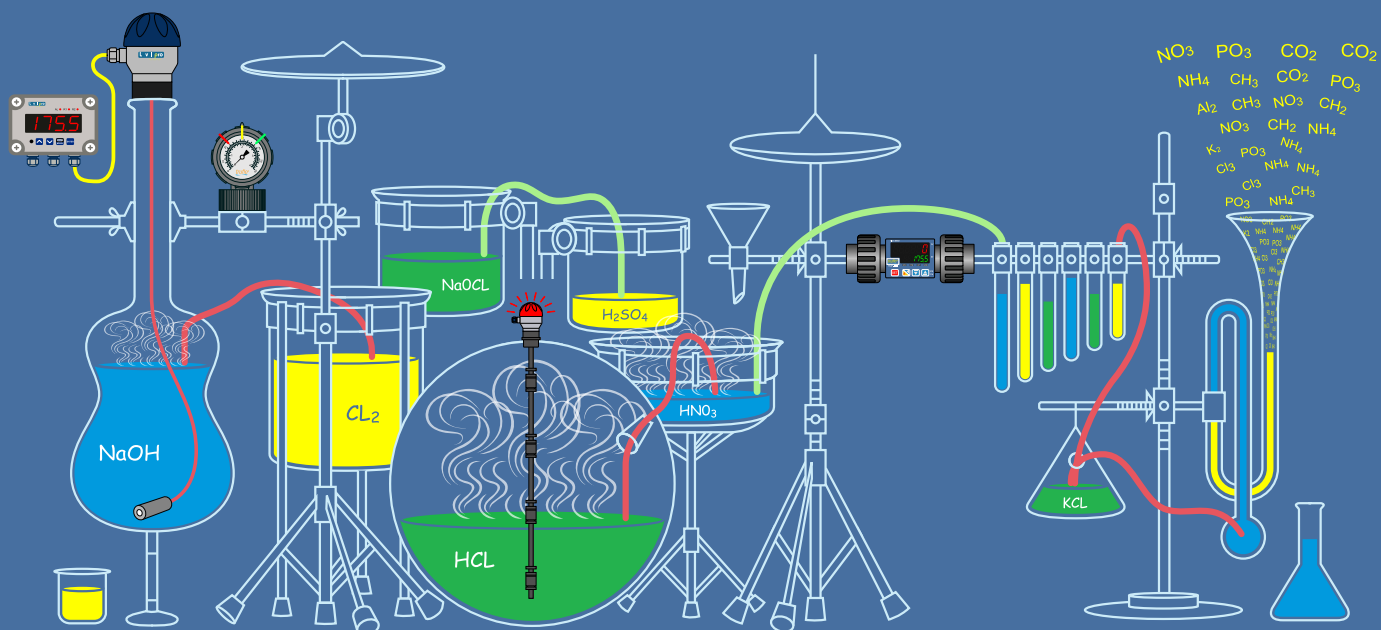


PIN ASSIGNMENT	
PIN #	WIRING
PIN 1	+10-30VDC
PIN 2	Relay 2
PIN 3	-VDC
PIN 4	Relay 1
PIN 5	COM
PIN 6	mA+ or V

CORROSION



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