

# STC Series

## PREMIUM PRESSURE TRANSMITTER



### Description

Winters STC Premium Pressure Transmitter is ideal for use in an environment where sanitary requirements are of high priority (i.e. dairy, food, pharmaceutical, etc.). This 3A approved 316-grade stainless steel constructed transmitter is easily cleaned (or steamed) in place with minimal zero shift. The STC is insensitive to thermal shock and has a fast reading rate of less than 10m per second. **It contains no fill oils and is available with a 1½" or 2" Tri-Clamp.** Pressure ranges vary from 0-15 in/H<sub>2</sub>O to 0-1000 psi. The STC standard operating temperature is -40°F to 260°F (-40°C to 128°C) and has an accuracy rating of ± 0.2%.

Common applications would include: Dairy and Pharmaceutical applications requiring 3A approval, Food and Beverage Processing Sanitary pipelines and Liquid Level Control (e.g. tanks).

### Specifications

<b>Electrical Output:</b>	4-20mA, 2 wire (other options available)
<b>Electrical Connector:</b>	15' shielded cable, ¾" conduit
<b>Zero/Span Control:</b>	Standard
<b>Product Approvals:</b>	3A (37-01), CE
<b>Connections / Wetted Parts:</b>	(1½" & 2" Tri Clamp®) 316 stainless steel
<b>Housing:</b>	316 stainless steel
<b>Environmental Protection Rating:</b>	NEMA 4X (IP65)
<b>Proof Pressure:</b>	Varies with range
<b>Burst Pressure:</b>	Varies with range
<b>Normal Operating Temp. Range:</b>	-40°F to 260°F (-40°C to 128°C)
<b>Compensated Temp. Performance:</b>	± 2.0% full scale output/100°F (37.7°C) for zero and span respectively from 20 to 180°F (-7 to 80°C)
<b>Ambient Temp. Effect on Zero:</b>	2% FS/100°F (37.7°C)
<b>Thermal Shock:</b>	0-257°F (125°C) negligible effect (CIP/SIP)
<b>Response Time:</b>	10mS
<b>Accuracy:</b>	± 0.20% FSO
<b>Non-Repeatability:</b>	± 0.25% FSO
<b>Hysteresis:</b>	± 0.10 FSO
<b>Long Term Stability:</b>	0.5% FSO per annum
<b>EMI/RFI Protection</b>	Yes
<b>Rating Weight:</b>	8 oz (227g)

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How to order: Specify product code  
**PRODUCT CODES**

Pressure Range *	1 1/2" Tri-Clamp (40mm)	2" Tri-Clamp (50mm)
0-1 psi (27.7 in/H <sub>2</sub> O)	-	STC201
0-2 psi (55.4 in/H <sub>2</sub> O)	-	STC202
0-5 psi (138.4 in/H <sub>2</sub> O)	-	STC205
0-10 psi (276.8 in/H <sub>2</sub> O)	-	STC210
0-15 psi (415.2 in/H <sub>2</sub> O)	-	STC215
0-30 psi	STC1530	STC230
0-60 psi	STC1560	STC260
0-100 psi	STC15100	STC2100
0-150 psi	STC15150	STC2150
0-300 psi	STC15300	-
0-500 psi	STC15500	-
0-1000 psi	STC151000	-

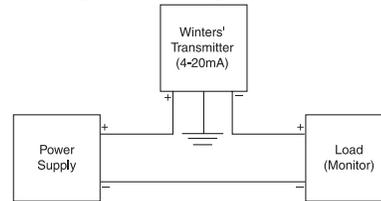
\*Other outputs and options available

® Tri-Clamp is a registered trademark of Tri-Clover

### Current Output Units

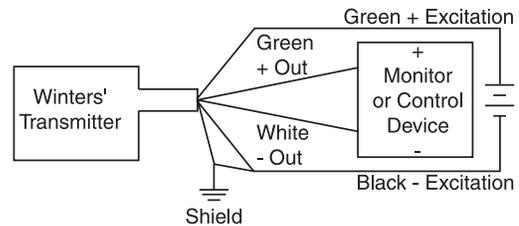
The STC transmitter is a true 2-wire, 4-20 mA current output device and delivers rated current into any external load of 0-800 ohms. The STC has a 2-wire cable where red is positive and black is negative.

The 4-20 mA current output units are designed to have current flow in on direction only - PLEASE OBSERVE POLARITY. We suggest that the electrical cable shield be connected to the system's loop circuit ground to improve electrical noise rejection.



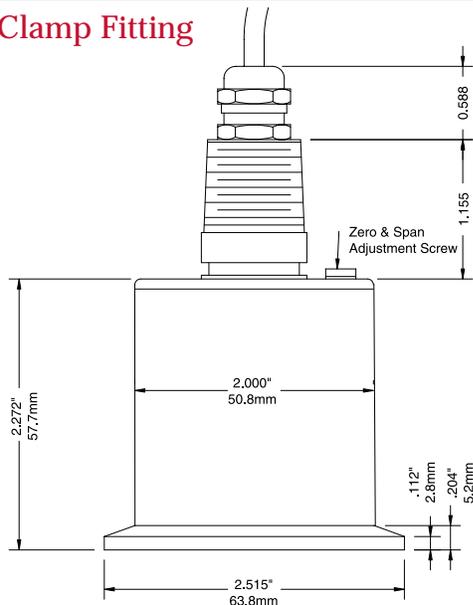
### Voltage Output Units

The STC voltage output is a 3-wire circuit. If the PT is supplied with 2 feet of cable, the electrical connection is as follows:



- Red = +Excitation; connect to appropriate power supply.
- Green = +Output; connect to controls or monitor.
- Black = Common; connect to return of power supply.
- White = -Output; connect to controls or monitor
- Shielding = Connect to system or earth ground.

### 2" Tri-Clamp Fitting



### 1.5" Tri-Clamp Fitting

