

Industrial Pressure Transmitters

220 Series Standard Pressure Transmitters for General Industrial Use

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230 Series Precision Programmable Transmitters provide 4 to 1 turndown as well as adjustable zero-point & span

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260 Series Submersible Level Transmitters for direct immersion in Tanks, Basins and Lakes. Precision electronics are programmable and provide 4 to 1 turndown and adjustable zero-point & span

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Trerice Pressure Transmitters are the ideal choice for demanding industrial, test & measurement and process control applications. The modular design of Trerice Pressure Transmitters allows for a wide variety of electrical connections, output signals and process connections to be specified to meet any application

12950 W. Eight Mile Road ● Oak Park ● MI 48237-3288 Tel: 1.888.TRERICE ● Fax: 1.248.399.7246 Website: www.TRERICE.com E-mail: sales@TRERICE.com Transmitters Rev-1

Model 220TST

Standard Pressure Transmitter



TEM NUMBER: 22075 OUSTOM NO. 9026 WTPUT SIGNAL 4 POWER SUPPLY 10 SERIAL NUMBER 10 GENERACE H.O. Trerice Co	

Applications

- Industrial Environments
- Fire Protection
- Hydraulic Systems
- Commercial / HVAC
- Process Automation
- Pump System Control
- Testing Technologies

Features

Model 220TST

- Ranges from 30" Hg to 0 thru 0 to 15,000 psi
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- Fully welded "Dry Measuring Cell", requires no internal transmission fluid or seals
- 17-4 PH stainless steel wetted parts
- 304 stainless steel body
- Industry standard electrical connections including DIN 175301–803A, Shielded Cable and M12 (S7243) 4 pin
- Highly flexible modular design
- Rated for Fire Protection Equipment

The **TRERICE 220TST** Pressure Transmitter is the ideal choice for demanding industrial, test & measurement, process control and fire protection applications. Thanks to the stainless steel/thin-film sensor element being directly welded to the process connection, the 220TST requires no internal transmission media or seals insuring a high degree of reliability and stability. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 220TST Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Specifications			
Model	220TST • Standard Transmitter		
Sensor Element	Thin film resistors directly deposited on a Stainless Steel Diaphragm		
Process Connec	tion 1/4 or 1/2 NPT male		
Materials of Con	nstruction		
Housing: Wetted Parts:	304 stainless steel 17-4 PH stainless steel		
Accuracy at 77° Non-Linearity: Hysteresis: Repeatability:	BFSL Full Scale 0.35% 0.50% 0.15% 0.30% 0.10% 0.10% 0.10% 0.10%		
Operating Temp	erature Ranges		
Medium: Ambient:	-40/+257°F (-40/+125°C) -40/+221°F (-40/+105°C)		
Temperature En			
Temperature com 1% between -4°F			
Humidity 95% RH Non-con 100% RH with Sh	densing Ielded Cable Connection (E3)		
Electronic Connection 90° Angle "Standard" Connector / DIN 175301-803 (A) Shielded Cable (3 Feet Standard) M12 (S7243) 4 pin Circular Connector			
Output Signal 4-20mA (2 wire) and 0-10Vdc (3 wire)			
Overpressure LimitRanges \leq 5000 psi at least:)1.5 x FSburst pressure at least:2.9 x FS10,000-15,000 psi at least:1.2 x FSburst pressure at least:1.5 x FS			
Response Time	(10-90%) < 1 ms		
4-20mA: 1	finimum Maximum Recommended 0Vdc 32Vdc 24Vdc 2Vdc 32Vdc 24Vdc		
Load Resistanc	e 4-20mA: ≤ <u>V_{SUPPLY} - 10 Vdc</u>		
	0.02 A 0-10 Vdc: > 5 k0hm		
Circuit Protectio Protected against			
EMC Directive: 20	RoHS2 Directive 2011/65/EU 14/30/EU - PED Directive: 2014/68/EU EN 61326-1:2013, EN 61326-2-3:2013		

Ingress Protection Rating

90° Angle Connector: IP65 / NEMA 4X Shielded Cable and M12 4 pin: IP67 / NEMA 6

Approximate Shipping Weight 0.3 lbs (0.14kg)

HOW TO ORDER

Sample Order	Number:	220TST	02 C	A 0/100	E1 3	9

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
220TST	02 1/4 NPT* 04 1/2 NPT	C 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std" E3 Shielded Cable (3 Ft Std) E9 M12 (S723) 4 pin	Specify Length in Feet (ie., 3 Ft=003)	3 4-20mA (2-wire) 2 0-10 Vdc (3-wire)

Multiple electrical connections, output signals and process connections are available, Please consult factory. * Maximum pressure 14,500 psi



All dimensions are nominal.



Standard Pressure Transmitter



Standard Ranges

psi Ranges (A)				
Range Code	Specific Range	Overpressure Limit	Burst Pressure	
30/0	30"Hg to 0	23 psi	44 psi	
30/15	30"Hg to 15 psi	45 psi	87 psi	
30/30	30"Hg to 30 psi	68 psi	131 psi	
30/60	30"Hg to 60 psi	113 psi	218 psi	
30/100	30"Hg to 100 psi	173 psi	334 psi	
30/150	30"Hg to 150 psi	248 psi	479 psi	
30/300	30"Hg to 300 psi	473 psi	914 psi	
0/15	0 to 15 psi	23 psi	44 psi	
0/30	0 to 30 psi	45 psi	87 psi	
0/60	0 to 60 psi	90 psi	174 psi	
0/100	0 to 100 psi	150 psi	290 psi	
0/160	0 to 160 psi	240 psi	464 psi	
0/200	0 to 200 psi	300 psi	580 psi	
0/300	0 to 300 psi	450 psi	870 psi	
0/400	0 to 400 psi	600 psi	1160 psi	
0/500	0 to 500 psi	750 psi	1450 psi	
0/600	0 to 600 psi	900 psi	1740 psi	
0/1000	0 to 1000 psi	1500 psi	2900 psi	
0/1500	0 to 1500 psi	2250 psi	4350 psi	
0/2000	0 to 2000 psi	3000 psi	5800 psi	
0/3000	0 to 3000 psi	4500 psi	8700 psi	
0/5000	0 to 5000 psi	7500 psi	14,500 psi	
0/10000	0 to 10,000 psi	12,000 psi	15,000 psi	
0/15000	0 to 15,000 psi	18,000 psi	22,500 psi	

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application see: ASTM F2070-00.

Classifications and Standards:

- UL® Classified and Listed to NSF/ANSI Standard 61 & 372 of "Safe Drinking Water Act"
- UL® Classified and Listed to IEC 61010-1 / CSA C22.2 NO. 61010-1-12 "Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use"
- Meets FM Approvals® for Class Number 1321/1323 Clause 5.9 (1-8)
 "Controllers for Electric Motor Driven and Diesel Engine Driven Fire Pumps"



INDUSTRIAL TRANSMITTERS

Model 222THP

High Pressure Transmitter



Applications

- Industrial Environments
- Hydraulic Systems
- Pneumatics
- Hydro-Power
- Diesel Engine Technologies
- Test Stands

Model 222THP

Features

- Ranges from 0 to 20,000 psi thru 0 to 60,000 psi
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- Fully welded "Dry Measuring Cell", requires no internal transmission fluid or seals
- 17–4 PH stainless steel wetted parts
- 304 stainless steel body

HOW TO ORDER

- Industry standard electrical connections including DIN 175301–803A, C and Shielded Cable
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable Connection IP67/NEMA 6)

The **TRERICE 222THP** "High-Pressure" Transmitter is the ideal choice for measurement of high pressures (up to 60,000 psi) in industrial, test & measurement and process control applications. Thanks to the stainless steel/thin-film sensor element being directly welded to the process connection, the 222THP requires no internal transmission media or seals insuring a high degree of reliability and stability. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 222THP Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

 For ranges over 30,000 psi Thick film resistors fused into Sapphire glass on a Titanium Diaphragm

Specifications

Model	227THP • High Pressure Transmitter
Sensor Element	Thin film resistors directly deposited on a Stainless Steel Diaphragm*

Process Connection

9/16"-18 UNF-2B female port. For use with coned and threaded high pressure tubing (reference "Autoclave® F-250-C")

Materials of Construction

Housing:	304 stainless steel
Wetted Parts:	17-4 PH stainless steel, over 30,000 psi Titanium

	BFSL	Full Scale
Accuracy at 77° F (25°C)	0.35%	0.50%
Non-Linearity:	0.15%	0.30%
Hysteresis:	0.10%	0.10%
Repeatability:	0.10%	0.10%
For ranges >30,000 psi see "	High Rang	e Accuracy"

Operating Temperature Ranges

Medium:	-40/+257°F (-40/+125°C)
Ambient:	-40/+221°F (-40/+105°C)

Temperature Error Band

Temperature compensated to within 1% between -4°F to 185°F (-20 to +85 °C)

Humidity

95% RH Non-condensing 100% RH with Shielded Cable Connection (E3)

Electronic Connection

90° Angle "Standard" Connector / DIN 175301-803 (A) 90° Angle "Mini" Connector / DIN 175301-803 (C) Shielded Cable (3 Feet Standard)

Output Signal

4-20mA (2 wire) and 0-10Vdc (3 wire)

Overpressure Limit at least: 1.2 x FS

burst pressure at least: 1.5 x FS **Response Time (10-90%)** < 1 ms

Power Supply Output Signal:		mum	Maxir	num	Recommended
4-20mA:	10V	'dc	32Vc	с	24Vdc
0-10Vdc:	12V	′dc	32Vc	С	24Vdc
Load Resista	nce	4-20	mA:	≤V	SUPPLY - 10 Vdc
					0.02 A
		0-10	Vdc:	> 5	k0hm

Circuit Protection

Protected against reverse polarity and short circuits

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating 90° Angle Connector: IP65 / NEMA 4X Shielded Cable: IP67 / NEMA 6

Approximate Shipping Weight 0.3 lbs (0.14kg)

Sample Order Number: 222THP 08 C A 0/30000 E1 3

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
222THF	9 08 9/16"-18 UNF-2B female port**	C 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std" E2 DIN 175301-803 (C) "mini" E3 Shielded Cable (3 Ft Std)	Specify Length in Feet (ie., 3 Ft=003)	3 4-20mA (2-wire) 2 0-10 Vdc (3-wire)

**For use with coned and threaded 1/4" O.D. high pressure tubing (reference "Autoclave® F-250-C") Multiple electrical connections, output signals and process connections are available, Please consult factory.



INDUSTRIAL TRANSMITTERS

Model 222THP

High Pressure Transmitter

All dimensions are nominal. Dimensions in [] are in millimeters.







High Range Accuracy (>30,000 psi)					
Accuracy at 77° F (25°C)	BFSL 0.60%	Full Scale 1.00%			
Non-Linearity:	0.40%	0.80%			
Hysteresis:	0.10%	0.10%			
Repeatability:	0.10%	0.10%			

Standard Ranges

psi Ranges (A)						
Range Code	Specific Range	Overpressure Limit	Burst Pressure			
0/20000	0 to 20,000 psi	24,000 psi	30,000 psi			
0/25000	0 to 25,000 psi	30,000 psi	37,500 psi			
0/30000	0 to 30,000 psi	36,000 psi	45,000 psi			
0/40000	0 to 40,000 psi	48,000 psi	60,000 psi			
0/50000	0 to 50,000 psi	60,000 psi	75,000 psi			
0/60000	0 to 60,000 psi	72,000 psi	90,000 psi			

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.

Model 225TLP

Low Pressure Transmitter





Applications

- **Pneumatics**
- **Commercial / HVAC**
- **Process Automation**
- **Testing Technologies**
- **Environmental Engineering**

Model 225TI P

Features

- Ranges from -4 in H₂O to 0 thru 0 to 10 psi
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- 304 stainless steel body

HOW TO ORDER

- Industry standard electrical connections including DIN 175301-803A, C and Shielded Cable
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable Connection IP67/NEMA 6)

The TRERICE 225LTP "Low-Pressure" Transmitter is the ideal choice for measurement of low pressure dry gases. The silicone chip/thinfilm sensor element of the 225TLP is directly attached to the process connection, so no internal transmission media is required insuring a high degree of reliability and stability.

In addition, the modular design of the 225TLP Low-Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Specifications						
Model	225TLP •	Low Press	sure Transmitter			
Sensor Element	Thin film resistors on a Silicon Membrane					
Process Connec	ction 1/4	1 or 1/2 NF	PT male			
Materials of Con Housing: Wetted Parts: Seal:	304 stainless steel 304 stainless steel 304 stainless steel, Silicon Chip, Glass NBR					
Accuracy at 77° Non-Linearity: Hysteresis: Repeatability:	F (25°C)	BFSL 0.60% 0.40% 0.10% 0.10%	Full Scale 1.00% 0.80% 0.10% 0.10%			
Operating Temp Medium: Ambient:	-13/+185	langes °F (-25/+8 °F (-25/+8				
Temperature Err Temperature com 1% between 14°F	pensated t) °C)			
Humidity 95% RH Non-con 100% RH with Sh		le Connec	tion (E3)			
Electronic Conn 90° Angle "Standard 90° Angle "Mini" C Shielded Cable (3	d" Connector	/ DIN 1753				
Output Signal 4-20mA (2 wire) a	nd 0-10Vd	c (3 wire)				
Overpressure Li At least: burst pressure at I	2	.5 x FS x FS (10 j	osi 4.5 x FS)			

Response Time (10-90%) < 1 ms

Power Supply Output Signal:	Mini	mum		mum	Recommende	d
4-20mA:	10V	dc	32V0	dc	24Vdc	
0-10Vdc:	12V	dc	32V	dc	24Vdc	
Load Resista	4-20	mA:	≤V	_{SUPPLY} - 10 Vdc	;	
					0.02 A	

0-10 Vdc: > 5 k0hm

Circuit Protection

Protected against reverse polarity and short circuits

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating 90° Angle Connector: IP65 / NEMA 4X

Shielded Cable: IP67 / NEMA 6

Approximate Shipping Weight 0.3 lbs (0.14kg)

Sample Order Number: 225TLP 02 D U 0/60 E1 3

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
225TLP	02 1/4 NPT 04 1/2 NPT	D 1.0% FS (0.60% BFSL)	U in H₂O A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std" E2 DIN 175301-803 (C) "mini" E3 Shielded Cable (3 Ft Std)	Specify Length in Feet (ie., 3 Ft=003)	3 4-20mA (2-wire) 2 0-10 Vdc (3-wire)

Multiple electrical connections, output signals and process connections are available, Please consult factory.





Low Pressure Transmitter

All dimensions are nominal. Dimensions in [] are in millimeters.



Standard Ranges

in. H ₂ O Ranges (U)								
Range Code	Specific Range	Overpressure Limit	Burst Pressure					
Pressure								
0/4	0/4 in. H ₂ O	10 in. H₂O	24 in. H ₂ O					
0/10	0/10 in. H ₂ O	25 in. H₂O	60 in. H ₂ O					
0/15	0/15 in. H ₂ O	38 in. H₂O	90 in. H ₂ O					
0/30	0/30 in. H ₂ O	75 in. H₂O	180 in. H ₂ O					
0/40	0/40 in. H ₂ O	100 in. H ₂ O	240 in. H ₂ O					
0/60	0/60 in. H ₂ O	150 in. H ₂ O	360 in. H ₂ O					
0/100	0/100 in. H ₂ O	250 in. H ₂ O	600 in. H ₂ O					
0/160	0/160 in. H ₂ O	400 in. H ₂ O	960 in. H ₂ O					
0/200	0/200 in. H ₂ O	0/200 in. H ₂ O 500 in. H ₂ O						
0/300	0/300 in. H ₂ O	750 in. H ₂ O	1800 in. H ₂ O					
		Vacuum						
4/0	4/0 in. H ₂ O	10 in. H ₂ O	24 in. H ₂ O					
10/0	10/0 in. H ₂ O	25 in. H ₂ O	60 in. H ₂ O					
15/0	15/0 in. H ₂ O	38 in. H ₂ O	90 in. H ₂ O					
30/0	30/0 in. H ₂ Oi	75 in. H ₂ O	180 in. H ₂ O					
60/0	60/0 in. H ₂ O	150 in. H₂O	360 in. H ₂ O					
100/0	100/0 in. H ₂ O	250 in. H ₂ O	600 in. H ₂ O					
200/0	200/0 in. H ₂ O	500 in. H ₂ O	1200 in. H ₂ O					

psi Ranges (A)						
Range Code	Specific Range	Overpressure Limit	Burst Pressure			
0/3	0 to 3 psi	8 psi	18 psi			
0/5	0 to 5 psi	13 psi	30 psi			
0/10	0 to 10 psi	25 psi	45 psi			

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.



Model 227TH1

High Temperature Pressure Transmitter



Applications

- Industrial Environments
- Hydraulic Systems
- **Commercial / HVAC**
- **Process Automation**
- **Pump System Control**
- **Testing Technologies**

Model 227THT

Features

- Continuous Process temperatures up to 320°F/160°C (356°F/180°C allowed for 15 minutes)
- Ranges from 30" Hg to 0 thru 0 to 15,000 psi
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- Fully welded "Dry Measuring Cell", requires no internal transmission fluid or seals
- 17-4 PH stainless steel wetted parts
- 304 stainless steel body
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable Connection IP67/NEMA 6)

The **TRERICE 227THT** "High-Temperature" Pressure Transmitter is the ideal choice for pressure measurement of high temperature process media. The integrated cooling tower allows the 227THT to consistently provide pressure measurement of high temperature (up to 320°F/160°C) processes. The stainless steel/thin-film sensor element of the 227THT is directly welded to the process connection, so no internal transmission media or seals are required, insuring a high degree of reliability and stability. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 227THT Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Model	227THT • I	ligh Temp	perature Transmi		
Sensor Elemen		Thin film resistors directly deposited on a Stainless Steel Diaphragm			
Process Conne	ection 1/4	or 1/2 NP	T male		
Materials of Co	onstruction				
Housing:	304 stainle				
Wetted Parts:	17-4 PH st				
Accuracy at 77	° E (25°C)	BFSL 0.35%	Full Scale 0.50%		
Non-Linearity:	1 (23 0)	0.15%	0.30%		
Hysteresis:		0.10%	0.10%		
Repeatability:		0.10%	0.10%		
Operating Tem					
Medium:	-40/+320°				
Ambient:	-40/+221°	F (-40/+1	05°C)		
Temperature E					
Temperature con					
1% between -4°	⁻ to 185°F (-2	20 to +85	°C)		
Humidity					
95% RH Non-co					
100% RH with S	hielded Cable	e Connect	tion (E3)		
Electronic Con 90° Angle "Standa					
90° Angle "Standa 90° Angle "Mini" Shielded Cable (i	rd" Connector Connector /	/ DIN 175 DIN 1753	301-803 (A)		
90° Angle "Standa 90° Angle "Mini"	rd" Connector Connector / 3 Feet Standa	/ DIN 1753 DIN 1753 ard)	301-803 (A)		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (i Output Signal 4-20mA (2 wire)	rd" Connector Connector / 3 Feet Standa and 0-10Vdc	/ DIN 1753 DIN 1753 ard)	301-803 (A)		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (; Output Signal	rd" Connector Connector / 3 Feet Standa and 0-10Vdc _imit	/ DIN 1753 DIN 1753 ard)	301-803 (A) 01-803 (C)		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I	rd" Connector Connector / 3 Feet Standa and 0-10Vdc _imit osi at least:)	/ DIN 1753 DIN 1753 ard) (3 wire)	301-803 (A) 01-803 (C) =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p	rd" Connector Connector / 3 Feet Standa and 0-10Vdc _imit osi at least:) ! least:	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 x F	301-803 (A) 01-803 (C) =S =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at	rd" Connector Connector / 3 Feet Standa and 0-10Vdc _imit bsi at least:) least: bsi at least:	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 x F 2.9 x F	301-803 (A) 01-803 (C) =S =S =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (* Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p	rd" Connector Connector / 3 Feet Standa and 0-10Vdc _imit psi at least:) least: si at least: least:	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 x F 2.9 x F 1.2 x F 1.5 x F	301-803 (A) 01-803 (C) =S =S =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p burst pressure at	rd" Connector Connector / 3 Feet Standa and 0-10Vdc _imit psi at least:) least: si at least: least:	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 x F 2.9 x F 1.2 x F 1.5 x F	301-803 (A) 01-803 (C) =S =S =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p burst pressure at Response Tim	rd" Connector Connector / 3 Feet Standa and 0-10Vdc Limit osi at least: least: least: least: e (10-90%)	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 x F 2.9 x F 1.2 x F 1.5 x F	301-803 (A) 01-803 (C) =S =S =S =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p burst pressure at Response Tim Power Supply	rd" Connector Connector / 3 Feet Standa and 0-10Vdc Limit osi at least: least: least: least: e (10-90%) Minimum	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 x F 2.9 x F 1.2 x F 1.5 x F 2.5 x F	301-803 (A) 01-803 (C) =S =S =S =S		
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90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p burst pressure at Response Tim Power Supply Output Signal:	rd" Connector Connector / 3 Feet Standa and 0-10Vdc _imit bsi at least: least: least: least: e (10-90%) Minimum M 10Vdc 3 12Vdc 3	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 x F 2.9 x F 1.2 x F 1.5 x F 1.5 x F < 1 ms /aximum 2Vdc 2Vdc	301 -803 (A) 01 -803 (C) =S =S =S =S =S =S =S =S =S =S =S =S =S		
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90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p burst pressure at Response Tim Power Supply Output Signal: 4-20mA: 0-10Vdc: Load Resistan	rd" Connector Connector / 3 Feet Standa and 0-10Vdc Limit Disi at least: least: least: least: e (10-90%) Minimum M 10Vdc 3 12Vdc 3 12V	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 × F 2.9 × F 1.2 × F 1.5 × F 1.5 × F 2.9 × C 1.5 × F 2.9 × F 1.2 × F 1.2 × F 2.9 × F 2.9 × F 1.2 × F 2.9	301-803 (A) 01-803 (C) =S =S =S =S =S =S =S =S =S =S =S =S =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p burst pressure at Response Tim Power Supply Output Signal: 4-20mA: 0-10Vdc: Load Resistan Circuit Protect Protected again: CE Conformity	rd" Connector Connector / 3 Feet Standa and 0-10Vdc imit bsi at least: least: least: e (10-90%) Minimum M 10Vdc 3 12Vdc 3 ce 4-20m/ 0-10 Vc ion st reverse pc	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 × F 2.9 × F 1.2 × F 1.2 × F 1.5 × F < 1 ms 2Vdc 2Vdc 2Vdc 2Vdc 2Vdc 4: ≤ <u>V</u> dc: > 5 elarity and ective 20	301-803 (A) 01-803 (C) =S =S =S =S =S =S =S =S =S =S =S =S =S		
90° Angle "Standa 90° Angle "Mini" Shielded Cable (Output Signal 4-20mA (2 wire) Overpressure I Ranges ≤ 5000 p burst pressure at 10,000-15,000 p burst pressure at Response Tim Power Supply Output Signal: 4-20mA: 0-10Vdc: Load Resistan Circuit Protect Protected again	rd" Connector Connector / 3 Feet Standa and 0-10Vdc Limit bsi at least: least: least: e (10-90%) Minimum M 10Vdc 3 12Vdc 3 ce 4-20m/ 0-10 Vc ion st reverse pc RoHS2 Dire 2014/30/EU	/ DIN 1753 DIN 1753 ard) (3 wire) 1.5 × F 2.9 × F 1.2 × F 1.2 × F 1.5 × F < 1 ms 2Vdc 2Vdc 2Vdc 2Vdc 4: ≤ V dc: > 5 olarity and ective 20 ⁻ - PED Dir	301-803 (A) 01-803 (C) =S =S =S =S =S =S =S =S =S =S =S =S =S		

90° Angle Connector: IP65 / NEMA 4X Shielded Cable: IP67 / NEMA 6

Approximate Shipping Weight 0.4 lbs (0.19kg)

Sample Order Number: 227THT 02 C A 0/100 E1 3

HOW TO ORDER

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
227THT	02 1/4 NPT*	C 0.5% FS	A psi	See	E1 DIN 175301-803 (A) "std"	Specify Length	3 4-20mA (2-wire)
	04 1/2 NPT	(0.35% BFSL)		Standard	E2 DIN 175301-803 (C) "mini"	in Feet	2 0-10 Vdc (3-wire)
				Ranges	E3 Shielded Cable (3 Ft Std)	(ie., 3 Ft=003)	

Multiple electrical connections, output signals and process connections are available, Please consult factory.

*Maximum pressure 14,500 psi



800-876-0036 847-356-0566 **Model 227THT**

High Temperature Pressure Transmitter

All dimensions are nominal. Dimensions in [] are in millimeters.



Standard Ranges

psi Ranges (A)						
Range Code	Specific Range	Overpressure Limit	Burst Pressure			
30/0	30"Hg to 0	23 psi	44 psi			
30/15	30"Hg to 15 psi	45 psi	87 psi			
30/30	30"Hg to 30 psi	68 psi	131 psi			
30/60	30"Hg to 60 psi	113 psi	218 psi			
30/100	30"Hg to 100 psi	173 psi	334 psi			
30/150	30"Hg to 150 psi	248 psi	479 psi			
30/300	30"Hg to 300 psi	473 psi	914 psi			
0/15	0 to 15 psi	23 psi	44 psi			
0/30	0 to 30 psi	45 psi	87 psi			
0/60	0 to 60 psi	90 psi	174 psi			
0/100	0 to 100 psi	150 psi	290 psi			
0/160	0 to 160 psi	240 psi	464 psi			
0/200	0 to 200 psi	300 psi	580 psi			
0/300	0 to 300 psi	450 psi	870 psi			
0/400	0 to 400 psi	600 psi	1160 psi			
0/600	0 to 600 psi	900 psi	1740 psi			
0/1000	0 to 1000 psi	1500 psi	2900 psi			
0/1500	0 to 1500 psi	2250 psi	4350 psi			
0/2000	0 to 2000 psi	3000 psi	5800 psi			
0/3000	0 to 3000 psi	4500 psi	8700 psi			
0/5000	0 to 5000 psi	7500 psi	14,500 psi			
0/10000	0 to 10,000 psi	12,000 psi	15,000 psi			
0/15000	0 to 15,000 psi	18,000 psi	22,500 psi			

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.



Model 230TPP

Precision Programmable Transmitter



Model 230TPP

Features

- Ranges from 30" Hg to 0 thru 0 to 15,000 psi*
- 4:1 Turndown with optional programming tool
- Zero Point adjustment can made using permanent magnet
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- Fully welded "Dry Measuring Cell", requires no internal transmission fluid or seals

Pharmaceutical Industry

Test Equipment

- 17-4 PH stainless steel wetted parts
- 304 stainless steel body

HOW TO ORDER

- Industry standard electrical connections including DIN 175301–803A, Shielded Cable and M12 (S7243) 4 pin
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable and M12 4 pin Connections – IP67/NEMA 6)

*Ranges up to 60,000 psi are available and require special "High-Pressure" fittings. Please consult factory

The **TRERICE 230TPP** "High-Precision" Digital Programmable Pressure Transmitter is the ideal choice for demanding industrial, test & measurement and process control applications. By use of the optional programming tool this transmitter provides 4 to 1 turn down and adjustable zero-point & span, allowing for multiple units of measure. The stainless steel/thin-film sensor element is directly welded to the process connection, so no internal transmission media or seals are required insuring a high degree of reliability and stability. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 230TPP Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Specifications

Model 230TPP • Precision Programmable Transmitter

Sensor Element Thin film resistors directly deposited on a Stainless Steel Diaphragm

Process Connection

1/4 or 1/2 NPT male (ASME B1.20.1) G 1/4 B or G 1/2 B (EN 837-1)

Materials of Construction

Housing:304 stainless steelWetted Parts:17-4 PH stainless steel

Accuracy at 77° F (25°C)	BFSL 0.35%	Full Scale 0.50%
Non-Linearity:	0.15%	0.30%
Hysteresis:	0.10%	0.10%
Repeatability:	0.10%	0.10%

Operating Temperature Ranges

Medium: -40/+257°F (-40/+125°C) Ambient: -40/+185°F (-40/+85°C)

Temperature Error Band

Temperature compensated to within 1% between -4°F to 185°F (-20 to +85 °C)

Humidity

95% RH Non-condensing 100% RH with Shielded Cable Connection (E3)

Electronic Connection

90° Angle "Standard" Connector / DIN 175301-803 (A) Shielded Cable (3 Feet Standard) M12 (S723) 4 pin Circular Connector

Output Signal 4-20mA (2 wire) and 0-10Vdc (3 wire)

Overpressure Limit	Ranges ≤ 5000 psi at least:	1.5 x FS
	burst pressure at least:	2.9 x FS
	10,000-15,000 psi at least:	1.2 x FS
	burst pressure at least:	1.5 x FS

Response Time (10-90%) < 10 ms

Power Supply	/				
Output Signal:	Minim	um Maxi	mum	Recommended	
4-20mA:	10Vdc	32Vo	dc	24Vdc	
0-10Vdc:	12Vdc	32Vo	dc	24Vdc	
Load Resistance 4-20mA: ≤ V _{SUPPLY} - 10 Vdc					
				0.02 A	
	C)-10 Vdc:	> 5	k0hm	

Circuit Protection

Protected against reverse polarity and short circuits

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating

90° Angle Connector: IP65 / NEMA 4X

Shielded Cable and M12 4 pin: IP67 / NEMA 6

Approximate Shipping Weight 0.4 lbs (0.20kg)

Sample Order Number: 230TPP 02 B A 0/600 E1 3

	Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
1	230TPP	02 1/4" NPT*	C 0.5% FS	A psi	See	E1 90° Angle DIN 175301-803 (A)	Specify Length	3 4-20mA (2-wire)
		04 1/2" NPT	(0.35% BFSL)		Standard	E3 Shielded Cable (3 Ft Std)	in Feet	2 0-10 Vdc (3-wire)
		42 G 1/4 B*			Ranges	E9 M12 (S723) 4 pin	(ie., 3 Ft=003)	
		44 G 1/2 B						

Multiple electrical connections, output signals and process connections are available, Please consult factory.

* Maximum pressure 14,500 psi



Model 230TPP

All dimensions are nominal. Dimensions in [] are in millimeters.

Precision Programmable Transmitter



Standard Ranges

psi Ranges (A)							
Range Code	Specific Range	Overpressure Limit	Burst Pressure				
30/0	30"Hg to 0	23 psi	44 psi				
30/15	30"Hg to 15 psi	45 psi	87 psi				
30/30	30"Hg to 30 psi	68 psi	131 psi				
30/60	30"Hg to 60 psi	113 psi	218 psi				
30/100	30"Hg to 100 psi	173 psi	334 psi				
30/150	30"Hg to 150 psi	248 psi	479 psi				
30/300	30"Hg to 300 psi	473 psi	914 psi				
0/15	0 to 15 psi	23 psi	44 psi				
0/30	0 to 30 psi	45 psi	87 psi				
0/60	0 to 60 psi	90 psi	174 psi				
0/100	0 to 100 psi	150 psi	290 psi				
0/160	0 to 160 psi	240 psi	464 psi				
0/200	0 to 200 psi	300 psi	580 psi				
0/300	0 to 300 psi	450 psi	870 psi				
0/400	0 to 400 psi	600 psi	1160 psi				
0/600	0 to 600 psi	900 psi	1740 psi				
0/1000	0 to 1000 psi	1500 psi	2900 psi				
0/1500	0 to 1500 psi	2250 psi	4350 psi				
0/2000	0 to 2000 psi	3000 psi	5800 psi				
0/3000	0 to 3000 psi	4500 psi	8700 psi				
0/5000	0 to 5000 psi	7500 psi	14,500 psi				
0/10000	0 to 10,000 psi	12,000 psi	15,000 psi				
0/15000	0 to 15,000 psi	18,000 psi	22,500 psi				

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.

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Model 235TFC

High Precision Transmitter-Flush Connection

Applications

- Hydraulic Systems
- Pneumatics
- Industrial Environments
- Mobile Hydraulics
- Food & Beverage Industry
- Water Treatment
- Pharmaceutical Industry



Model 235TFC

Features

- Ranges from 0 to 10 psi thru 0 to 800 psi
- 4:1 Turndown with optional programming tool
- Zero Point adjustment can made using permanent magnet
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- **316L stainless steel wetted parts**
- 304 stainless steel body
- Industry standard electrical connections including DIN 175301-803A, C and Shielded Cable
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable and M12 4 pin **Connections IP67/NEMA 6)**

The TRERICE 235TFC "Flush-Connection" Digital-Programmable, Pressure Transmitter is the ideal choice for demanding chemical, sanitary and food process applications. By use of the optional programming tool this transmitter provides 4 to 1 turn down and adjustable zero-point & span, allowing for multiple units of measure. The stainless membrane is completely vacuum-sealed, extremely burst resistant and is applicable for use with a variety of process mediums. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 235TFC Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Specifications

Model 235TFC • Flush Connection Transmitter

Sensor Element Capsule Type - Thin film resistors on a Silicon Membrane, Oil-Filled, Stainless Steel Diaphragm

Process Connection G 1/2 A, G 3/4 A, G 1 A Type E (per ISO 1179-2)

Materials of Construction

Housing: 304 stainless steel Wetted Parts: 316L stainless steel, Viton® Pressure Transmission Liquid: Silicone Oil

Accuracy at 77° F (25°C)	BFSL 0.35%	Full Scale 0.50%
Non-Linearity:	0.15%	0.30%
Hysteresis:	0.10%	0.10%
Repeatability:	0.10%	0.10%

Operating Temperature Ranges

Medium: -4/+257°F (-20/+125°C) Ambient: -4/+185°F (-20/+85°C)

Temperature Error Band

Temperature compensated to within 1% between 41°F to 185°F (5 to +85 °C)

Humidity

95% RH Non-condensing 100% RH with Shielded Cable Connection (E3)

Electronic Connection

90° Angle "Standard" Connector / DIN 175301-803 (A) Shielded Cable (3 Feet Standard) M12 (S723) 4 pin Circular Connector

Output Signal

4-20mA (2 wire) and 0-10Vdc (3 wire)

Overpressure Limit at least: 1.5 x FS burst pressure at least: 2.9 x FS

Response Time (10-90%) < 10 ms

Output Signal:	Min	imum	Maxir	num	Recommended
4-20mA:	10V	'dc	32Vd	С	24Vdc
0-10Vdc:	12V	'dc	32Vd	С	24Vdc
Load Resistance		4-20	mA:	≤V	SUPPLY - 10 Vdc 0.02 A
		0-10	Vdc:	> 5	k0hm

Protected against reverse polarity and short circuits

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating

90° Anale Connector: IP65 / NEMA 4X Shielded Cable and M12 4 pin: IP67 / NEMA 6

Approximate Shipping Weight 0.4 lbs (0.20kg)

HOW TO ORDER

Sample Order Number: 235TFC 32 C A 0/1000 E1 3

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
235TFC	32 G 1/2 A 33 G 3/4 A 34 G 1 A	C 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std" E3 Shielded Cable (3 Ft Std) E9 M12 (S723) 4 pin	Specify Length in Feet (ie., 3 Ft=003)	3 4-20mA (2-wire)2 0-10 Vdc (3-wire)

Multiple electrical connections, output signals and process connections are available. Please consult factory.



INDUSTRIAL TRANSMITTERS



High Precision Transmitter-Flush Connection

All dimensions are nominal. Dimensions in [] are in millimeters.



Standard Ranges

	psi Ranges (A)								
Range Code	Specific Range	Overpressure Limit	Burst Pressure						
0/10	0 to 10 psi	15 psi	29 psi						
0/15	0 to 15 psi	23 psi	44 psi						
0/30	0 to 30 psi	45 psi	87 psi						
0/60	0 to 60 psi	90 psi	174 psi						
0/100	0 to 100 psi	150 psi	290 psi						
0/160	0 to 160 psi	240 psi	464 psi						
0/200	0 to 200 psi	300 psi	580 psi						
0/300	0 to 300 psi	450 psi	870 psi						
0/400	0 to 400 psi	600 psi	1160 psi						
0/600	0 to 600 psi	900 psi	1740 psi						
0/800	0 to 800 psi	1200 psi	2320 psi						

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.

Model 236TFS

High Precision Transmitter-Flush Socket Connection

Applications

- Pneumatics / Hydraulics
- Industrial Environments
- Mobile Hydraulics
- Food & Beverage Industry
- Water Treatment
- Pharmaceutical Industry
- Fracking



Model 236TFS

Features

- Ranges from 0 to 10 psi thru 0 to 800 psi
- 4:1 Turndown with optional programming tool
- Zero Point adjustment can made using permanent magnet
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- 316L stainless steel wetted parts
- 304 stainless steel body

HOW TO ORDER

- Industry standard electrical connections including DIN 175301–803A, C and Shielded Cable
- Highly flexible modular design
- Protection Class IP65/NEMA 4X (Shielded Cable and M2 4 pin Connections IP67/NEMA 6)

The **TRERICE 236TFS** "Flush-Socket Connection" Digital-Programmable, Pressure Transmitter is the ideal choice for demanding chemical, sanitary and semiconductor process applications. By use of the optional programming tool this transmitter provides 4 to 1 turn down and adjustable zero-point & span, allowing for multiple units of measure. The stainless membrane is completely vacuum-sealed, extremely burst resistant and is applicable for use with a variety of process mediums. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 236TFS Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Specifications

Model 236TFS * Flush Socket Transmitter Sensor Element Capsule Type - Thin film resistors on a Silicon Membrane, Oil-Filled, Stainless Steel Diaphragm Process Connection Modified ISO 1179-2 G 1/2 A Type E with O-ring Materials of Construction Housing: 304 stainless steel Wetted Parts: 316L stainless steel, Viton® Seal: Viton®

	BFSL	Full Scale
Accuracy at 77° F (25°C)	0.35%	0.50%
Non-Linearity:	0.15%	0.30%
Hysteresis:	0.10%	0.10%
Repeatability:	0.10%	0.10%

Operating Temperature Ranges

Transmission Eluid: Silicono Oil

 Medium:
 -40/+257°F (-40/+125°C)

 Ambient:
 -40/+185°F (-40/+85°C)

Temperature Error Band

Temperature compensated to within 1% between -4°F to 185°F (-20 to +85 °C)

Humidity

95% RH Non-condensing 100% RH with Shielded Cable Connection (E3)

Electronic Connection

90° Angle "Standard" Connector / DIN 175301-803 (A) Shielded Cable (3 Feet Standard) M12 (S723) 4 pin Circular Connector

Output Signal

4-20mA (2 wire) and 0-10Vdc (3 wire)

 Overpressure Limit

 at least:
 1.5 x FS

 burst pressure at least:
 2.9 x FS

Response Time (10-90%) < 10 ms

Power Supply

i onci ouppij	/					
Output Signal:	Min	imum	Maxir	num	Recommended	
4-20mA:	10V	/dc	32Vd	С	24Vdc	
0-10Vdc:	12V	/dc	32Vd	С	24Vdc	
Load Resistance		4-20	mA:	≤V	SUPPLY - 10 Vdc	
					0.02 A	
		0-10	Vdc:	> 5	k0hm	

Circuit Protection

Protected against reverse polarity and short circuits

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating

90° Angle Connector: IP65 / NEMA 4X Shielded Cable and M12 4 pin: IP67 / NEMA 6

Approximate Shipping Weight 0.4 lbs (0.20kg)

Sample Order Number: 236TFS 36 C A 0/200 E1 3

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
236TFS	36 G 1/2 A	C 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std" E3 Shielded Cable (3 Ft Std) E9 M12 (S723) 4 pin	Specify Length in Feet (ie., 3 Ft=003)	 3 4-20mA (2-wire) 2 0-10 Vdc (3-wire)

Multiple electrical connections, output signals and process connections are available, Please consult factory.





High Precision Transmitter-Flush Socket Connection





236TFS Flush Socket Fitting Modified from an ISO 1179-2 G 1/2 A Type E



User Supplied Socket



Standard Ranges

psi Ranges (A)					
Range Code	Specific Range	Overpressure Limit	Burst Pressure		
0/10	0 to 10 psi	15 psi	29 psi		
0/15	0 to 15 psi	23 psi	44 psi		
0/30	0 to 30 psi	45 psi	87 psi		
0/60	0 to 60 psi	90 psi	174 psi		
0/100	0 to 100 psi	150 psi	290 psi		
0/160	0 to 160 psi	240 psi	464 psi		
0/200	0 to 200 psi	300 psi	580 psi		
0/300	0 to 300 psi	450 psi	870 psi		
0/400	0 to 400 psi	600 psi	1160 psi		
0/600	0 to 600 psi	900 psi	1740 psi		
0/800	0 to 800 psi	1200 psi	2320 psi		

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.



Model 238TSC

High Precision Transmitter-Sanitary Style Connection

Applications

- Sanitary Applications
- Food & Beverage Industry
- Pharmaceutical Industry •
- Water Treatment
- Industrial Environments
- **Automotive Paint Systems**



Model 238TSC

Features

- Ranges from 0 to 10 psi thru 0 to 600 psi
- **FDA Approved Fill Fluid**
- 4:1 Turndown with optional programming tool
- Zero Point adjustment can made using permaent magnet
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- **316L stainless steel wetted parts / 304 stainless steel body**
- Industry standard electrical connections including DIN 175301-803A, C and Shielded Cable
- Highly flexible modular design
- Protection Class IP65/NEMA 4X, PUR Cable Connection IP68/NEMA 6P, M12 4 pin IP67 NEMA 6

The TRERICE 238TSC "Sanitary Connection" Digital-Programmable, Pressure Transmitter is the ideal choice for demanding pharmaceutical, food & beverage, water treatment and chemical applications. By use of the optional programming tool this transmitter provides 4 to 1 turn down and adjustable zero-point & span, allowing for multiple units of measure. The stainless membrane is completely vacuum-sealed, extremely burst resistant and is applicable for use with a variety of process mediums. Stainless steel wetted parts provide long-term durability even in the harshest environments.

In addition, the modular design of the 238TSC Pressure Transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Specifications

238TSC • Sanitary Connection Transmitter Model

Sensor Element Capsule Type - Thin film resistors on a Silicon Membrane, Oil-Filled, Stainless Steel Diaphragm

Process Connection

1 1/2" or 2" Tri-Clamp Sanitary Style Connection

Materials of Construction Housing: 304 stainless steel Wetted Parts: 316L stainless steel Pressure Transmission Liquid: FDA Approved Oil Diaphragm Surface Finish (Ra): <30 µin

	BFSL	Full Scale
Accuracy at 77° F (25°C)	0.35%	0.50%
Non-Linearity:	0.15%	0.30%
Hysteresis:	0.10%	0.10%
Repeatability:	0.10%	0.10%

Operating Temperature Ranges

Medium: Ambient:

14/+257°F (-10/+125°C) 14/+185°F (-10/+85°C)

Temperature Error Band Temperature compensated to within

1% between 41°F to 185°F (5 to +85 °C)

Humidity

95% RH Non-condensing 100% RH with Shielded Cable Connection (E3)

Electronic Connection

90° Angle "Standard" Connector / DIN 175301-803 (A) PUR (Polyurethane) Cable (3 Feet Standard) M12 (S723) 4 pin Circular Connector

Output Signal

4-20mA (2 wire) and 0-10Vdc (3 wire)

Overpressure Limit

at least: 1.5 x FS burst pressure at least: 2.9 x FS

Response Time (10-90%) < 10 ms

Power Supply

Load Resistance 4-20mA: $\leq V_{\text{SUPPLY}} - 10 \text{ Vdc}$ 0.02 A	Output Signal: 4-20mA: 0-10Vdc:		Maxii 32Vc 32Vc	lc	Recommended 24Vdc 24Vdc
0.02 A		 	02.00		
					0.02 A

Circuit Protection

Protected against reverse polarity and short circuits

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating

90° Angle Connector: IP65 / NEMA 4X

PUR Cable: IP68 / NEMA 6P, M12 4 pin IP67/NEMA 6

Approximate Shipping Weight 0.4 lbs (0.20kg)

Sample Order Number: 238TSC 15 C A 0/60 E1 3

Model	Process Connection	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length (omit if none)	Output Signal
238TSC	15 1 ¹ /2" Tri-Clamp* 20 2" Tri-Clamp	C 0.5% FS (0.35% BFSL)	A psi	See Standard Ranges	E1 DIN 175301-803 (A) "std" E4 PUR Cable (3 Ft Std) E9 M12 (S723) 4 pin	Specify Length in Feet (ie., 3 Ft=003)	3 4-20mA (2-wire) 2 0-10 Vdc (3-wire)

* Use for 1" clamp connection.

HOW TO ORDER

Multiple electrical connections, output signals and process connections are available, Please consult factory.





High Precision Transmitter-Sanitary Style Connection



Standard Ranges

	psi Ranges (A)							
Range Code Specific Range Overpressure Limit Burst Pressure								
0/10	0 to 10 psi	15 psi	29 psi					
0/15	0 to 15 psi	23 psi	44 psi					
0/30	0 to 30 psi	45 psi	87 psi					
0/60	0 to 60 psi	90 psi	174 psi					
0/100	0 to 100 psi	150 psi	290 psi					
0/160	0 to 160 psi	240 psi	464 psi					
0/200	0 to 200 psi	300 psi	580 psi					
0/300	0 to 300 psi	450 psi	870 psi					
0/400	0 to 400 psi	600 psi	1160 psi					
0/600	0 to 600 psi	900 psi	1740 psi					

Classification; UL® Classified and Listed to NSF/ANSI Standard 61 & 372 of "Safe Drinking Water Act" Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.



Model 260TSB

Submersible Level Transmitter

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Applications

- Tanks
- **Basins**
- Waste Water
- **Rivers and Lakes**
- Salt Water

Features

- Ranges from 0-40 in. H₂O thru 0 to 300 psi
- 4-20mA and 0-10Vdc Standard Industrial Output Signals
- Zero Point adjustment can be made using permanent magnet
- 4:1 Turndown with optional programming tool
- PUR-cable has integral capillary tube for relative pressure balancing (includes GORE-TEX® filter)
- Stainless steel wetted parts with plastic cap (316L available)
- **316L stainless steel body**
- Protection Class IP68 / NEMA 6P

The **TRERICE 260TSB** "Submersible Transmitter" provides level measurement of tanks, basins and cisterns. By use of the optional programming tool this transmitter provides 4 to 1 turn down and adjustable zero-point & span, allowing for multiple units of measure.

The stainless membrane is completely vacuum-sealed, extremely burst resistant and is applicable for use with a variety of process mediums. Stainless steel wetted parts provide long-term durability even in the harshest environments.

Specifica							
Model 260	TSB • Subr	nersible Le	vel Transmitter				
			in film resistors on Steel Diaphragm				
Process Conn		irect Subme o Process A					
Materials of Construction Housing: 316L stainless steel Wetted Parts: 316L stainless steel, Plastic Sensor Cover (316L Cover Optional) Polyurethane (PUR) Cable							
Pressure Trans	smission L	.iquid Si	licone Oil				
Accuracy at 7	7° F (25°C)	BFSL 0.35%	Full Scale 0.50%				
Non-Linearity: Hysteresis: Repeatability:		0.15% 0.10% 0.10%	0.30% 0.10% 0.10%				
Operating Ten Medium: Ambient:	+14/+15	Ranges 8°F (-10/+ 8°F (-10/+					
Temperature E Temperature cor 14°F to 158°F (-	mpensated	to within 19	% between				
Humidity	Fully Sub	omersible					
Electronic Con PUR (Polyuretha FEP (Flourinated Output Signal	ane) Cable	Propylene) (Cable				
4-20mA (2 wire)	and 0-10Vo	dc (3 wire)					
Overpressure Ranges ≤ 3 psi a burst pressure a 5-300 psi at leas burst pressure a	at least: t least: st:	2.5 x 6 x FS 1.5 x 2.9 x	S FS				
Response Tim	e (10-90%) < 4 ms					
Power Supply Output Signal: 4-20mA: 0-10Vdc:	Minimum 10Vdc 12Vdc	Maximum 32Vdc 32Vdc	Recommended 24Vdc 24Vdc				
Load Resistan	ce 4-20r	-	/ _{SUPPLY} - 10 Vdc 0.02 A 5 k0hm				
Circuit Protect	tion		d short circuits				

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating IP68 / NEMA 6P

Approximate Shipping Weight 0.5 lbs (0.23kg)

HOW TO ORDER

Sample Order Number:	260TSB C U 0/300 E4 100 3

Model	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length	Output Signal
260TSB	C 0.5% FS	U in H ₂ O	See	E4 PUR Cable	Specify Length	3 4-20mA (2-wire)
	(0.35% BFSL)	A psi	Standard	E6 FEP Cable	in Feet	2 0-10 Vdc (3-wire)
			Ranges		(ie., 600 ft. max)	

Multiple electrical connections, output signals and process connections are available. Please consult factory.



Model 260TSB

Submersible Level Transmitter

All dimensions are nominal. Dimensions in [] are in millimeters.



Maximum Cable Lengths

Code	Cable Material	Max. Cable (length 1)	Max. Cable (length 2)
E4	PUR (Polyurethane)	65 feet (20 m)	535 feet (165 m)
E6	FEP (Flourinated-Ethylene-Propylene)	100 feet (30 m)	500 feet (150 m)

Standard Ranges

in. H ₂ O Ranges (U)							
Range Code	Specific Range	Overpressure Limit	Burst Pressure				
0/40	0 to 40 in. H ₂ O	100 in. H ₂ O	240 in. H ₂ O				
0/60	0 to 60 in. H ₂ O	150 in. H ₂ O	360 in. H ₂ O				
0/100	0 to 100 in. H ₂ O	250 in. H ₂ O	600 in. H ₂ O				
0/160	0 to 160 in. H ₂ O	400 in. H ₂ O	960 in. H ₂ O				
0/200	0 to 200 in. H ₂ O	500 in. H ₂ O	1200 in. H ₂ O				
0/300	0 to 300 in. H ₂ O	750 in. H ₂ O	1800 in. H ₂ O				

	psi Ranges (A)							
Range Code	Specific Range	Overpressure Limit	Burst Pressure					
0/3	0 to 3 psi	8 psi	18 psi					
0/5	0 to 5 psi	7 psi	14 psi					
010	0 to 10 psi	15 psi	29 psi					
0/15	0 to 15 psi	22 psi	43 psi					
0/30	0 to 30 psi	45 psi	87 psi					
0/60	0 to 60 psi	90 psi	174 psi					
0/100	0 to 100 psi	150 psi	290 psi					
0/160	0 to 160 psi	240 psi	464 psi					
0/200	0 to 200 psi	300 psi	580 psi					
0/300	0 to 300 psi	450 psi	870 psi					

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.



Model 261TSG

Submersible Level Transmitter *with* Sensor-Guard

Applications

- Lift Stations
- Storage Tanks
- Waste Water Systems
- Process Sludge
- Rivers and Lakes
- Wet Wells



Features

Model 261TSG

- Ranges from 0-40 in. H₂O thru 0 to 300 psi
- Diaphragm has large 4.5 in² Sensing Area for increased sensitivity
- 4–20mA and 0–10Vdc Standard Industrial Output Signals
- Zero Point adjustment can be made using permanent magnet
- 4:1 Turndown with optional programming tool
- Barrier plate helps protect diaphragm providing years of clog-free operation
- PUR-cable has integral capillary tube for relative pressure balancing (includes GORE-TEX® filter)
- 316L Stainless steel wetted parts

The **TRERICE 261TSG** "Submersible Transmitter with Sensor Guard" provides accurate measurement of sludge levels, pump lift stations and other viscous applications where clogging of the sensor is a common problem. The flush diaphragm has 4.5 in² of surface area providing increased sensitivity, while the 316L barrier plate and cage assembly help eliminate the buildup of debris, grease and bio-solids.

By use of the optional programming tool this transmitter provides 4 to 1 turn down and adjustable zero-point & span, allowing for multiple units of measure. The stainless membrane is completely vacuum-sealed, extremely burst resistant and is applicable for use with a variety of process mediums. Stainless steel wetted parts provide long-term durability even in the harshest environments.

Specifications

Model 26	61TSG • Submersible Level Transmitter
	nt Capsule Type - Thin film resistors on a ane, Oil-Filled, Stainless Steel Diaphragm
Process Con	nection Direct Submersion with Sensor-Guard
Materials of (Wetted Parts:	Construction 316L stainless steel, Polyurethane (PUR) Cable
Pressure Trai	nsmission Liquid Silicone Oil
Accuracy at 7 Non-Linearity Hysteresis: Repeatability	r: 0.15% 0.30% 0.10% 0.10%
Operating Te Medium: Ambient:	mperature Ranges +14/+158°F (-10/+70°C) +14/+158°F (-10/+70°C)
Temperature Temperature co 14°F to 158°F Humidity	ompensated to within 1% between
Electronic Co PUR (Polyureth	onnection
Output Signa 4-20mA (2 wire) and 0-10Vdc (3 wire)
Overpressure Ranges ≤ 3 ps burst pressure 5-300 psi at lea burst pressure	Limit i at least: 2.5 x FS at least: 6 x FS ast: 1.5 x FS
	ne (10-90%) < 4 ms
Power Supply Output Signal:	y Minimum Maximum Recommended 10Vdc 32Vdc 24Vdc
4-20mA: 0-10Vdc:	12Vdc 32Vdc 24Vdc

Protected against reverse polarity and short circuits

CE Conformity RoHS2 Directive 2011/65/EU EMC Directive: 2014/30/EU - PED Directive: 2014/68/EU Applied standards: EN 61326-1:2013, EN 61326-2-3:2013

Ingress Protection Rating IP68 / NEMA 6P

Approximate Shipping Weight 4.0lbs (1.80kg) Cable only: .02 lbs (0.009kg) per foot

HOW TO ORDER

Sample Order Number:	261TSG C U 0/300 E4 100 3
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Model	Accuracy	Units of Measure	Range Code	Electrical Connection	Cable Length	Output Signal
261TSG	C 0.5% FS	U in H ₂ O	See	E4 PUR Cable	Specify Length	3 4-20mA (2-wire)
	(0.35% BFSL)	A psi	Standard	E6 FEP Cable	in Feet	2 0-10 Vdc (3-wire)
			Ranges		(ie., 600 ft. max)	

Multiple electrical connections, output signals and process connections are available. Please consult factory.





Submersible Level Transmitter

All dimensions are nominal. Dimensions in [] are in millimeters.







Maximum Cable Lengths

Code	Cable Material	Max. Cable (length 1)	Max. Cable (length 2)
E4	PUR (Polyurethane)	65 feet (20 m)	535 feet (165 m)
E6	FEP (Flourinated-Ethylene-Propylene)	100 feet (30 m)	500 feet (150 m)

Large 4.5 in² Sensing Area

Standard Ranges

in. H ₂ O Ranges (U)			
Range	Specific	Overpressure	Burst
Code	Range	Limit	Pressure
0/40	0 to 40 in. H ₂ O	100 in. H ₂ O	240 in. H ₂ O
0/60	0 to 60 in. H ₂ O	150 in. H ₂ O	360 in. H ₂ O
0/100	0 to 100 in. H ₂ O	250 in. H ₂ O	600 in. H ₂ O
0/160	0 to 160 in. H ₂ O	400 in. H ₂ O	960 in. H ₂ O
0/200	0 to 200 in. H ₂ O	500 in. H ₂ O	1200 in. H ₂ O
0/300	0 to 300 in. H ₂ O	750 in. H ₂ O	1800 in. H ₂ O

psi Ranges (A)			
Range Code	Specific Range	Overpressure Limit	Burst Pressure
0/3	0 to 3 psi	8 psi	18 psi
0/5	0 to 5 psi	7 psi	14 psi
010	0 to 10 psi	15 psi	29 psi
0/15	0 to 15 psi	22 psi	43 psi
0/30	0 to 30 psi	45 psi	87 psi
0/60	0 to 60 psi	90 psi	174 psi
0/100	0 to 100 psi	150 psi	290 psi
0/160	0 to 160 psi	240 psi	464 psi
0/200	0 to 200 psi	300 psi	580 psi
0/300	0 to 300 psi	450 psi	870 psi

Actual working pressures should never exceed the "Specific Range" or the maximum process connection rating. "Overpressure Limits" and "Burst Pressures" shown refer to the sensor or body of the transmitter and are for reference purposes only. For correct use and application See: ASTM F2070-00.



https://www.mmcontrol.com/Trerice.php

Junction Box for Submersible Level Transmitter

Part Number: 201-0002



Application

Working Temperature:

For use with the 260TSB or 261TSG Submersible Level Transmitter, this surface-mountable Junction Box features an IP65 enclosure to protect the reference hose of the transmitter against the intrusion of dust or water, as well as an internal terminal block and pressure compensation port with filter element.

Technical Data

- Enclosure Material: Gasket Material: Mounting: Cable Connection: Protection:
- Polystyrene Polyurethane Surface Mount w/4 screws (2) PG 11 Cable Glands IP65 (NEMA 4X)

Dimensions

Junction Box with Pressure Compensation Port Approximate Shipping Weight: 0.7 lbs [0.32 kg]

-40 to 158F (-40 to 70C)

All dimensions are nominal. Dimensions in [] are in millimeters.

Typical Installation



Junction Box Flectronic Controller Alarm Submersible Level Transmitter in tank



LED Digital Indicator Module

Part Number: 201-0004



Applications

- Plug in digital indicator for use with transmitters having 4–20mA output and E1 (DIN 175301–803 A) electrical connection
- Indicator face plate can be turned in 90° steps for multiple viewing angles
- Requires no external power
- 4 Digit LED display

Technical Data

- Power supply : Integrated ADC: Display: Input: Output:
- Loop-powered 16 bit -1999 to 9999 4-20mA 4-20mA

Circuit Protection:	Protected against reverse polarity and short circuits
Working Temperature:	–4 to 158°F (–20 to 70° C)
Stock Temperature:	-22 to 185°F (-30 to 85° C)
Protection:	IP 67
Approximate Shipping Weight:	0.15 lbs [0.07 kg]

Dimensions

All dimensions are nominal. Dimensions in [] are in millimeters.



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Industrial Pressure Transmitters

INSTALLATION AND OPERATION INSTRUCTIONS

Authorized Personnel

Installation and set up of pressure transmitters should only be done by individuals that are familiar with the applicable national regulations (such as NFPA) and have the appropriate qualifications. Depending on the application conditions, it is necessary that personnel have appropriate knowledge, e.g. concerning corrosive products or high pressure.

Product Application

- When installing and placing the pressure transmitter into operation, please observe the accident prevention regulations as defined by qualified organizations (such as NFPA).
- Trerice Pressure transmitters are suited for measuring pressure in applications with gaseous and liquid media.
- Please observe the pressure, force and temperature limits as defined in these Installation & Operating Instructions
 or in the technical specification sheets.
- Ambient conditions (temperature, air pressure, humidity, etc.) should always be considered.
- Never expose the product to heavy vibrations or physical impact.

• Use the pressure transmitter in its original state only. Do not tamper with the product. There are no serviceable components and the device does not require maintenance.

- Prior to installation remove all protective packaging materials (e.g. film, caps, cardboard etc.)
- Packaging materials should be responsibly recycled.

Operating Conditions

- Deviations from the operating conditions specified in the technical data sheet (i.e. "Operating Temperature Ranges")
 may result in damage to the pressure transmitter.
- Protection class IP65/IP67 may not apply to all operating conditions. This protection class applies only when the transmitter's electrical connection is properly attached to the mating plug with gaskets in place. It is the user's responsibility to verify that the connection corresponds with all applicable regulations and provisions.
- The values quoted in the technical data sheet for "Overpressure Limits" refer to the wetted parts of the transmitter that are directly exposed to the process medium.

How to Install the Pressure Transmitter

- Use the appropriate wrench to install the pressure transmitter into the respective pressure connection. The torque is approximately 25 Nm.
- For connections that require the use of a sealing ring, verify the respective dimensions of the ring prior to use.
- All wiring must meet local regulations and must be performed by qualified personnel only. Use cable that is appropriate to the installation environment. DO NOT CRUSH CABLE. Electrical power must be connected in accordance with the respective connection diagram; otherwise damage/destruction may occur.
- All seals must be positioned and assembled appropriately for the IP protection class to apply.

How to Remove the Pressure Transmitter

- Please observe applicable safety regulations when removing the pressure
- Prior to removing transmitter from application, system MUST be depressurized. Failure to do so may result in damage or personal injury.



https://www.mmcontrol.com/Trerice.php

800-876-0036 847-356-0566

Industrial Pressure Transmitters

Electrical Connections Wiring Diagram

2- Wire Circuits (4 20mA)



3- Wire Circuits (0-10Vdc)



Miscellaneous Information

Warranty

The H. O. Trerice Co. warrants products of its manufacture to be free from defects in workmanship and material for a period of one year from the date of shipment to the original purchaser. Trerice will repair or replace such product (F.O.B. Factory) should our internal examination reveal it to be defective. Product used in conjunction with non-Trerice product, or in any way modified or altered, may not be covered under the terms of this warranty. Trerice assumes no other responsibility or liability.

Trademarks

The following trademarks are not owned by Trerice and are the property of their respective owners:

Tri-Clamp[®] Teflon[®] Viton[®]

Organizations

The H. O. Trerice Co. recognizes the following organizations: Fluid Controls Institute (FCI), Valve Manufacturers Association of America (VMA) and the International Society of Automation (ISA). These nonprofit associations work with manufacturers and other organizations to develop standards and exchange statistical and technical knowledge.

Caution

All Trerice products should be carefully selected to meet the demands of the particular application. The information contained in this catalog is offered only as a guide to assist in making the proper selection. Selection of the proper product, as well as its installation and use, is the sole responsibility of the user. Improper application or product misuse may cause failure of the product, resulting in possible personal injury or property damage. For correct use and application of all Trerice products, please refer to the proper standard set forth by ASME. These documents may be obtained from the American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10016-5990.

A word about this catalog

The information contained in this catalog was correct at the time of printing. Due to the Trerice commitment of continuous development and improvement, these specifications are subject to change without notice. Any information contained within this catalog should not be interpreted as a contractual agreement by Trerice. All orders are subject to the approval of the H.O. Trerice Co., Oak Park, Michigan.





Distributed By: M&M Control Service, Inc.



Pressure Transmitters





H.O. TRERICE

From its start in 1923 in Detroit, the **H.O. Trerice Company** has remained true to the commitment of its founder - **QUALITY** in both PRODUCT and SERVICE. This commitment has solidly established Trerice as a worldwide leader in the manufacture of specialized engineered products for industrial temperature and pressure measurement and control.

When your requirements demand quality instrumentation and controls, the broad line of Trerice products are ready for your application. Contact us today for detailed information on your particular areas of interest.