



TEL-TRU MANUFACTURING COMPANY PRESSURE TRANSMITTERS



World-Class Thermometers *Since 1916*

www.teltru.com



Tel-Tru Manufacturing Company

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Tel-Tru Pressure Transmitters are offered in a compact all welded stainless steel housing with a variety of available connections for the pressure port and electrical connections for output signal transmission.

- The type of pressure transducer or sensor used is appropriate to the application and accuracy requirement.
- Electronics within the housing amplifies and conditions the changing transducer signal to an industry standard output signal, which is transmitted to a receiver device such as a readout, recorder, data logger or controller.

Selecting a Pressure Transmitter:

- ***Output required?***
- ***Accuracy required?***
- ***Pressure range needed?***
- ***Process connection required relative to media being measured?***
- ***Electrical connection for interface with plant system?***

Market Applications:

- Industrial Lab and Test
- Machine Control
- Oil and Gas Industry
- Liquid Level
- Sanitary Processing
- Specialty Processing
- OEM Equipment

Industrial Grade Units:

- $\pm .5\%$ accuracy
- Zero adjustment standard $\pm 10\%$ of range
- CE marked
- Intrinsically Safe models available with FM CSA approval
- Ranges From 30" Hg-0 psi to 0-9,000 psi
- User selectable modular design

Precision Grade Units:

- $\pm .25\%$ accuracy standard; $\pm .10\%$ available for some models
- All welded stainless steel force collecting diaphragm
- Ultra high pressure up to 100,000 psi
- Non-filled (dry) design and construction of Flush Diaphragm units for greater accuracy
- NIST traceable certificate standard
- Intrinsically Safe approval pending for some models
- User selectable modular design
- *Customization available*

See www.teltru.com for detailed specifications and indepth product information.

TEL-TRU PRESSURE TRANSMITTERS

Range Table and How to Order

HOW TO ORDER:



EXAMPLE: Precision Grade Threaded, 4-20 mA, 0.25% Accuracy, 0 to 100 psi, Gage Pressure, 1/4" NPT Male, 2 ft. Wire Pigtail (NEMA 4X). **PART NUMBER:** **P121A3D9AG-01A402**

SELECT: **MODEL** **OUTPUT** **ACCURACY** **RANGE** **MODE** **PROCESS CONN.** **ELECTRICAL CONN.**
P121 A 3 D9A G - 01 A402

RANGES	Unit	CODE	Threaded							Flush			Sanitary		Submersible			Diff.
			P11x	P121	P131	P141	P151	P161	P171	P21x	P221	P231	P31x	P321	P41x	P421	P431	
Vacuum																		
-30" Hg to 0	in. Hg	V1K	X	X		X					X	X	X	X	X			X
Compound																		
-30" Hg to 15	psi	Z1A	X	X		X					X	X	X	X	X			X
-30" Hg to 30	psi	Z2A	X	X		X					X	X	X	X	X			X
-30" Hg to 60	psi	Z3A	X	X		X					X	X	X	X	X			X
Pressure																		
0 to 3	psi	A8A		X		X								X				X
0 to 5	psi	B1A		X		X								X	X	X	X	X
0 to 10	psi	B4A		X		X								X	X	X	X	X
0 to 15	psi	B7A	X	X	X	X								X	X	X	X	X
0 to 25	psi	C4A		X	X	X								X	X	X	X	X
0 to 30	psi	C6A	X	X	X	X								X	X	X	X	X
0 to 50	psi	D4A		X	X	X								X	X	X	X	X
0 to 60	psi	D6A	X								X				X			X
0 to 100	psi	D9A	X	X	X	X						X	X	X	X	X	X	X
0 to 150	psi	E3A	X	X	X	X					X	X	X	X	X	X	X	X
0 to 200	psi	E5A	X	X	X	X						X	X		X	X	X	X
0 to 300	psi	E8A	X	X	X	X						X	X		X		X	X
0 to 500	psi	F3A		X	X	X						X	X		X			X
0 to 600	psi	F4A	X	X	X	X					X	X	X	X	X			X
0 to 750	psi	F6A		X	X	X						X	X		X			X
0 to 1,000	psi	F8A	X	X	X	X						X	X		X			X
0 to 1,500	psi	H2A	X	X	X	X					X	X	X	X				X
0 to 2,000	psi	H5A	X	X	X	X			X			X	X					X
0 to 3,000	psi	H9A	X	X	X	X			X			X	X					X
0 to 4,000	psi	J4A	X	X	X	X			X			X	X					X
0 to 5,000	psi	J8A		X	X	X			X			X	X					X
0 to 6,000	psi	K1A	X								X		X	X				
0 to 7,500	psi	K2A		X	X	X			X			X						X
0 to 9,000	psi	Q6A	X								X		X	X				
0 to 10,000	psi	K4A		X	X	X			X									X
0 to 15,000	psi	K7A		X	X	X	X		X									
0 to 20,000	psi	K8A					X		X									
0 to 25,000	psi	L1A					X	X	X									
0 to 30,000	psi	L2A					X	X										
0 to 40,000	psi	L4A					X	X										
0 to 50,000	psi	L7A					X	X										
0 to 60,000	psi	L9A					X	X										
0 to 75,000	psi	Q1A						X										
0 to 100,000	psi	Q2A						X										
0 to 10	in. WC	B4P	X	X	X	X												
0 to 16	in. WC	B8P	X	X	X	X												
0 to 25	in. WC	C4P	X	X	X	X												
0 to 40	in. WC	D1P	X	X	X	X												
0 to 60	in. WC	D6P	X	X	X	X												
0 to 100	in. WC	D9P	X	X	X	X												
0 to 150	in. WC	E3P													X		X	X
0 to 200	in. WC	E5P													X		X	X
0 to 300	in. WC	E8P													X		X	X
0 to 500	in. WC	F3P													X		X	X
0 to 750	in. WC	F6P													X		X	X
0 to 1,000	in. WC	F8P													X		X	X
0 to 5	ft. WC	B1S															X	
0 to 10	ft. WC	B4S												X		X	X	
0 to 15	ft. WC	B7S												X		X	X	
0 to 20	ft. WC	C2S												X		X	X	
0 to 25	ft. WC	C4S												X		X	X	
0 to 50	ft. WC	D4S												X		X	X	

PRESSURE TRANSMITTERS

Tel-Tru pressure transmitters are accurate, robust, and built for long life; even in the harshest environments. Configure for your application with user selected modular design.

► PRESSURE TRANSMITTER TYPE AND SERIES		THREADED 100 SERIES	
		Industrial Grade Threaded 	Precision Grade Threaded 
		P111 P112	P121 -
► STANDARD MODELS ► Intrinsically Safe Models (see www.teltru.com for standard product specs)			
APPLICATIONS:		<ul style="list-style-type: none"> Hydraulics and Pneumatics Industrial Process Laboratory and Test Equipment Marine and Offshore Pump and Compressors 	<ul style="list-style-type: none"> Hydraulics and Pneumatics Injection Molding Machines Laboratory and Test Equipment Marine and Offshore Petrochemical Pump and Compressors
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):			
Excitation Voltage:		11-40 Vdc	8-38 Vdc
Proof Pressure:		1.3X FS thru 5X FS	2X FS
Burst Pressure:		1.7X FS thru 10X FS	5X FS
Response Time:		<3 ms <5 ms	<5 ms
Wetted Materials:		Ceramic and 316L SS	316 and 15-5 SS
Protection Class:		IP65	NEMA 4X
Temperature Performance:			
• Operating Temperature Range (OTR)		-13 to 212°F (-25 to 100°C)	-40 to 200°F (-40 to 93.3°C)
• Compensated Temperature Range (CTR)		14 to 131°F (-10 to 55°C)	0 to 170°F (-17.8 to 76.7°C)
• Temperature Effect on Zero over the CTR		±0.014% FS/°F (±0.025% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
• Temperature Effect on Span over the CTR		±0.008% FS/°F (±0.015% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
Zero and Span Balance:		±0.5% FSO	±1.0% FSO
Long-Term Stability:		±0.5% FSO/year	±0.25% FSO/year
Insulation Resistance:		100 M-ohms @ 250 Vdc	1000 M-ohms @ 50 Vdc
OUTPUTS	CODE		
4-20 mA (2-wire)	A	Standard	Standard
0-5 Vdc (3-wire)	B	-	Available
1-2 mV/V (4-wire)	C	-	Available
ACCURACY +/-			
0.50%	2	Standard	-
0.25%	3	-	Standard
0.15%	5	-	-
0.10%	6	-	Available
PRESSURE RANGES (See RANGE TABLE for Range Codes)		-30" Hg -0 psi thru 0-9,000 psi	-30" Hg -0 psi thru 0-15,000 psi
MODE			
Gage Pressure Reference	G	Standard	Standard
Absolute Pressure Reference	A	Available	Available
PROCESS CONNECTION			
1/4" NPT (M)	01	Standard	Standard
1/4" NPT (F)	02	-	Available
1/2" NPT (M)	03	Available	Available
7/16-20 UNF (M)	07	-	Available
Autoclave F-250-C	11	-	Available
Autoclave F-312-C	13	-	-
3/4-16 UNF (M) Flush Diaphragm	17	-	-
7/16-20 UNF(M) Flush Diaphragm	18	-	-
1/2" NPT (M) Flush Diaphragm	46	-	-
2" Tri-Clamp	28	-	-
Flush CLOG FREE sensor	36	-	-
7/16-20 UNF (M) with PVC cap	15	-	-
ELECTRICAL CONNECTION			
2' wire pigtail (NEMA 4X)	A402	Available	Standard
DIN 43650 connector with mate	D200	Standard	Available
BENDIX 6 pin	B200	Available	Available
1/2" NPT (M) conduit with 2' wire pigtail	A602	Available	Available
1/2 NPT (M) submersible conduit with 10' polyurethane cable	A510	-	-
10' vented polyurethane cable	A210	-	-
Solder Pins	E100	-	-
1/2" NPT (M) conduit with 20' wire pigtail	A620	-	-



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► PRESSURE TRANSMITTER TYPE AND SERIES		THREADED 100 SERIES	
		Precision Grade Threaded OEM 	Precision Grade Rugged 
► STANDARD MODELS ► Intrinsically Safe Models (see www.teltru.com for standard product specs)		P131 -	P141 -
APPLICATIONS:		<ul style="list-style-type: none"> • Brake Test Equipment • Hydraulics and Pneumatics • Marine and Offshore • Off Highway Equipment • Petrochemical • Pump and Compressors 	<ul style="list-style-type: none"> • Hydraulics and Pneumatics • Laboratory and Test Equipment • Marine and Offshore • Petrochemical • Pump and Compressors
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):			
Excitation Voltage:		8-38 Vdc	8-38 Vdc
Proof Pressure:		2X FS	2X FS
Burst Pressure:		5X FS	5X FS
Response Time:		<5 ms	<5 ms
Wetted Materials:		316 and 15-5 SS	316 and 15-5 SS
Protection Class:		NEMA 4X	NEMA 4X
Temperature Performance:			
• Operating Temperature Range (OTR)		-40 to 200°F (-40 to 93.3°C)	-40 to 200°F (-40 to 93.3°C)
• Compensated Temperature Range (CTR)		0 to 170°F (-17.8 to 76.7°C)	0 to 170°F (-17.8 to 76.7°C)
• Temperature Effect on Zero over the CTR		±0.02% FS/°F (±0.036% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
• Temperature Effect on Span over the CTR		±0.02% FS/°F (±0.036% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
Zero and Span Balance:		±1.0% FSO	±1.0% FSO
Long-Term Stability:		±0.50% FSO/year	±0.25% FSO/year
Insulation Resistance:		1000 M-ohms @ 50 Vdc	1000 M-ohms @ 50 Vdc
OUTPUTS		CODE	
4-20 mA (2-wire)		A	Standard
0-5 Vdc (3-wire)		B	Available
1-2 mV/V (4-wire)		C	Available
ACCURACY +/-			
0.50%		2	Standard
0.25%		3	-
0.15%		5	Standard
0.10%		6	-
PRESSURE RANGES (See RANGE TABLE for Range Codes)			
MODE			
Gage Pressure Reference		G	Standard
Absolute Pressure Reference		A	Available
PROCESS CONNECTION			
1/4" NPT (M)		01	Standard
1/4" NPT (F)		02	-
1/2" NPT (M)		03	Standard
7/16-20 UNF (M)		07	Available
Autoclave F-250-C		11	-
Autoclave F-312-C		13	Available
3/4-16 UNF (M) Flush Diaphragm		17	-
7/16-20 UNF(M) Flush Diaphragm		18	-
1/2" NPT (M) Flush Diaphragm		46	-
2" Tri-Clamp		28	-
Flush CLOG FREE sensor		36	-
7/16-20 UNF (M) with PVC cap		15	-
ELECTRICAL CONNECTION			
2' wire pigtail (NEMA 4X)		A402	Standard
DIN 43650 connector with mate		D200	Available
BENDIX 6 pin		B200	Available
1/2" NPT (M) conduit with 2' wire pigtail		A602	Available
1/2 NPT (M) submersible conduit with 10' polyurethane cable		A510	Available
10' vented polyurethane cable		A210	-
Solder Pins		E100	-
1/2" NPT (M) conduit with 20' wire pigtail		A620	-

Tel-Tru Pressure Transmitters Accurate, Robust, and Built to Last!

OTHER OPTIONS - Ranges, process and electrical connections, and options are available upon request. Please visit www.teltru.com for complete specifications and product information.


► PRESSURE TRANSMITTER TYPE AND SERIES		THREADED 100 SERIES	
		Precision Grade Mid-High Pressure 	Precision Grade Ultra High Pressure 
		P151 -	P161 -
► STANDARD MODELS ► Intrinsically Safe Models (see www.teltru.com for standard product specs)			
APPLICATIONS:		<ul style="list-style-type: none"> High Pressure Cutting Systems Industrial Process Control Laboratory and Test Equipment Stamping Presses 	<ul style="list-style-type: none"> High Pressure Cutting Systems Industrial Process Control Laboratory and Test Equipment Stamping Presses
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):			
Excitation Voltage:		8-38 Vdc	8-38 Vdc
Proof Pressure:		2X FS (75 kpsi max)	2X FS (160 kpsi max)
Burst Pressure:		3X FS (90 kpsi max)	5X FS (180 kpsi max)
Response Time:		<5 ms	<5 ms
Wetted Materials:		15-5 SS	15-5 SS
Protection Class:		NEMA 4X	NEMA 4X
Temperature Performance:			
• Operating Temperature Range (OTR)		-40 to 200°F (-40 to 93.3°C)	-40 to 200°F (-40 to 93.3°C)
• Compensated Temperature Range (CTR)		0 to 170°F (-17.8 to 76.7°C)	0 to 170°F (-17.8 to 76.7°C)
• Temperature Effect on Zero over the CTR		±0.015% FS/°F (±0.027% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
• Temperature Effect on Span over the CTR		±0.015% FS/°F (±0.027% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
Zero and Span Balance:		±1.0% FSO	±1.0% FSO
Long-Term Stability:		±0.25% FSO/year	±0.25% FSO/year
Insulation Resistance:		1000 M-ohms @ 50 Vdc	1000 M-ohms @ 50 Vdc
OUTPUTS	CODE		
4-20 mA (2-wire)	A	Standard	Standard
0-5 Vdc (3-wire)	B	Available	Available
1-2 mV/V (4-wire)	C	Available	Available
ACCURACY +/-			
0.50%	2	Standard	Standard
0.25%	3	Available	Available
0.15%	5	-	-
0.10%	6	-	-
PRESSURE RANGES (See RANGE TABLE for Range Codes)		0-15,000 psi thru 0-60,000 psi	0-25,000 psi thru 0-100,000 psi
MODE			
Gage Pressure Reference	G	Standard	Standard
Absolute Pressure Reference	A	-	-
PROCESS CONNECTION			
1/4" NPT (M)	01	-	-
1/4" NPT (F)	02	-	-
1/2" NPT (M)	03	-	-
7/16-20 UNF (M)	07	-	-
Autoclave F-250-C	11	Standard	Standard
Autoclave F-312-C	13	Available	Available
3/4-16 UNF (M) Flush Diaphragm	17	-	-
7/16-20 UNF(M) Flush Diaphragm	18	-	-
1/2" NPT (M) Flush Diaphragm	46	-	-
2" Tri-Clamp	28	-	-
Flush CLOG FREE sensor	36	-	-
7/16-20 UNF (M) with PVC cap	15	-	-
ELECTRICAL CONNECTION			
2' wire pigtail (NEMA 4X)	A402	Standard	Standard
DIN 43650 connector with mate	D200	Available	Available
BENDIX 6 pin	B200	Available	Available
1/2" NPT (M) conduit with 2' wire pigtail	A602	-	-
1/2" NPT (M) submersible conduit with 10' polyurethane cable	A510	-	-
10' vented polyurethane cable	A210	-	-
Solder Pins	E100	-	-
1/2" NPT (M) conduit with 20' wire pigtail	A620	-	-



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▶ PRESSURE TRANSMITTER TYPE AND SERIES	THREADED 100 SERIES	FLUSH 200 SERIES
	Precision Grade High Temp Down Hole 	Industrial Grade Flush Diaphragm 
▶ STANDARD MODELS ▶ Intrinsically Safe Models (see www.teltru.com for standard product specs)	P171 -	P211 P212
APPLICATIONS:	<ul style="list-style-type: none"> • Down Hole • Offshore and On Shore 	<ul style="list-style-type: none"> • Industrial Process Control • Laboratory and Test Equipment • Non-Filled Flush Diaphragm Process Connection
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):		
Excitation Voltage:	1-20 Vdc	11-40 Vdc
Proof Pressure:	1.5X FS	1.3X FS thru 2X FS
Burst Pressure:	2X FS (30 kpsi max)	1.7X FS thru 3.8X FS
Response Time:	<1 ms	<3 ms
Wetted Materials:	316 and 15-5 SS	316L SS
Protection Class:	Hermetically Sealed	IP65
Temperature Performance:		
<ul style="list-style-type: none"> • Operating Temperature Range (OTR) 	-40 to 350°F (-40 to 176.7°C)	-5 to 185°F (-15 to 85°C)
<ul style="list-style-type: none"> • Compensated Temperature Range (CTR) 	0 to 300°F (-17.8 to 148.9°C)	14 to 131°F (-10 to 55°C)
<ul style="list-style-type: none"> • Temperature Effect on Zero over the CTR 	±0.015% FS/°F (±0.027% FS/°C)	±0.014% FS/°F (±0.025% FS/°C)
<ul style="list-style-type: none"> • Temperature Effect on Span over the CTR 	±0.015% FS/°F (±0.027% FS/°C)	±0.008% FS/°F (±0.015% FS/°C)
Zero and Span Balance:	±.02 mV/V @ 10 Vdc	±0.5% FSO
Long-Term Stability:	±0.20% FSO/year	±0.5% FSO/year
Insulation Resistance:	10 k-ohms @ 50 Vdc	100 M-ohms @ 250 Vdc
OUTPUTS	CODE	
4-20 mA (2-wire)	A -	Standard
0-5 Vdc (3-wire)	B -	-
1-2 mV/V (4-wire)	C Standard	-
ACCURACY +/-		
0.50%	2 -	Standard
0.25%	3 -	-
0.15%	5 Standard	-
0.10%	6 Available	-
PRESSURE RANGES (See RANGE TABLE for Range Codes)		
MODE		
Gage Pressure Reference	G -	Standard
Absolute Pressure Reference	A Standard	Available
PROCESS CONNECTION		
1/4" NPT (M)	01 -	-
1/4" NPT (F)	02 -	-
1/2" NPT (M)	03 -	-
7/16-20 UNF (M)	07 Standard	-
Autoclave F-250-C	11 -	-
Autoclave F-312-C	13 -	-
3/4-16 UNF (M) Flush Diaphragm	17 -	-
7/16-20 UNF (M) Flush Diaphragm	18 -	-
1/2" NPT (M) Flush Diaphragm	46 -	Standard
2" Tri-Clamp	28 -	-
Flush CLOG FREE sensor	36 -	-
7/16-20 UNF (M) with PVC cap	15 -	-
ELECTRICAL CONNECTION		
2' wire pigtail (NEMA 4X)	A402 -	Available
DIN 43650 connector with mate	D200 -	Standard
BENDIX 6 pin	B200 Available	Available
1/2" NPT (M) conduit with 2' wire pigtail	A602 -	Available
1/2 NPT (M) submersible conduit with 10' polyurethane cable	A510 -	-
10' vented polyurethane cable	A210 -	-
Solder Pins	E100 Standard	-
1/2" NPT (M) conduit with 20' wire pigtail	A620 -	-

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OTHER OPTIONS - Ranges, process and electrical connections, and options are available upon request. Please visit www.teltru.com for complete specifications and product information.


► PRESSURE TRANSMITTER TYPE AND SERIES		FLUSH 200 SERIES	
		Precision Grade Flush Diaphragm 	Precision Grade Miniature Flush Diaphragm 
		P221 -	P231 -
► STANDARD MODELS ► Intrinsically Safe Models (see www.teltru.com for standard product specs)			
APPLICATIONS:		<ul style="list-style-type: none"> Adhesives Coating Machinery Paint Systems Sealant Systems Slurries 	<ul style="list-style-type: none"> Adhesives and Mastics Paint Spraying Slurries
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):			
Excitation Voltage:		8-38 Vdc	2-15 Vdc
Proof Pressure:		2X FS	1.5X FS
Burst Pressure:		5X FS (15 kpsi max)	2X FS
Response Time:		<3 ms	<1 ms
Wetted Materials:		15-5 SS	316 and 15-5 SS
Protection Class:		NEMA 4X	NEMA 4X
Temperature Performance:			
• Operating Temperature Range (OTR)		-40 to 200°F (-40 to 93.3°C)	-40 to 200°F (-40 to 93.3°C)
• Compensated Temperature Range (CTR)		0 to 170°F (-17.8 to 76.7°C)	0 to 170°F (-17.8 to 76.7°C)
• Temperature Effect on Zero over the CTR		±0.015% FS/°F (±0.027% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
• Temperature Effect on Span over the CTR		±0.015% FS/°F (±0.027% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
Zero and Span Balance:		±1.0% FSO	±1.0% FSO
Long-Term Stability:		±0.25% FSO/year	±0.25% FSO/year
Insulation Resistance:		1000 M-ohms @ 50 Vdc	1000 M-ohms @ 50 Vdc
OUTPUTS	CODE		
4-20 mA (2-wire)	A	Standard	-
0-5 Vdc (3-wire)	B	Available	-
1-2 mV/V (4-wire)	C	Available	Standard
ACCURACY +/-			
0.50%	2	Standard	Standard
0.25%	3	Available	Available
0.15%	5	-	-
0.10%	6	-	-
PRESSURE RANGES (See RANGE TABLE for Range Codes)		-30" Hg-0 psi thru 0-7,500 psi	-30" Hg-0 psi thru 0-10,000 psi
MODE			
Gage Pressure Reference	G	Standard	Standard
Absolute Pressure Reference	A	-	-
PROCESS CONNECTION			
1/4" NPT (M)	01	-	-
1/4" NPT (F)	02	-	-
1/2" NPT (M)	03	-	-
7/16-20 UNF (M)	07	-	-
Autoclave F-250-C	11	-	-
Autoclave F-312-C	13	-	-
3/4-16 UNF (M) Flush Diaphragm	17	Standard	-
7/16-20 UNF (M) Flush Diaphragm	18	-	Standard
1/2" NPT (M) Flush Diaphragm	46	-	-
2" Tri-Clamp	28	-	-
Flush CLOG FREE sensor	36	-	-
7/16-20 UNF (M) with PVC cap	15	-	-
ELECTRICAL CONNECTION			
2' wire pigtail (NEMA 4X)	A402	Standard	-
DIN 43650 connector with mate	D200	Available	-
BENDIX 6 pin	B200	Available	Standard
1/2" NPT (M) conduit with 2' wire pigtail	A602	Available	-
1/2" NPT (M) submersible conduit with 10' polyurethane cable	A510	-	-
10' vented polyurethane cable	A210	-	-
Solder Pins	E100	-	-
1/2" NPT (M) conduit with 20' wire pigtail	A620	-	-



Tel-Tru Manufacturing Company



408 St. Paul St., Rochester, New York 14605 USA

Phone: 585-232-1440 • 800-232-5335 • Fax: 585-232-3857 • E-mail: info@teltru.com • Web: www.teltru.com

► PRESSURE TRANSMITTER TYPE AND SERIES		SANITARY 300 SERIES	
		Industrial Grade Sanitary 	Precision Grade Sanitary 
		P311 P312	P321 -
► STANDARD MODELS ► Intrinsically Safe Models (see www.teltru.com for standard product specs)			
APPLICATIONS:		<ul style="list-style-type: none"> • Brewers • Dairy • Food and Beverage Processing • Pharmaceutical 	<ul style="list-style-type: none"> • Biotech • Cosmetics • Dairy • Food and Beverage Processing • Pharmaceutical
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):			
Excitation Voltage:		11-40 Vdc	8-38 Vdc
Proof Pressure:		1.3X FS thru 4X FS	2X FS
Burst Pressure:		1.7X FS thru 8X FS	5X FS (5 kpsi max)
Response Time:		<3 ms	<5 ms
Wetted Materials:		316L SS	316L SS
Protection Class:		IP65	NEMA 4X
Temperature Performance:			
• Operating Temperature Range (OTR)		-5 to 185°F (-15 to 85°C)	-40 to 200°F (-40 to 93.3°C)
• Compensated Temperature Range (CTR)		14 to 131°F (-10 to 55°C)	0 to 170°F (-17.8 to 76.7°C)
• Temperature Effect on Zero over the CTR		±0.022% FS/°F (±0.04% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
• Temperature Effect on Span over the CTR		±0.008% FS/°C (±0.015% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
Zero and Span Balance:		±0.5% FSO	±1.0% FSO
Long-Term Stability:		±0.5% FSO/year	±0.25% FSO/year
Insulation Resistance:		100 M-ohms @ 250 Vdc	1000 M-ohms @ 50 Vdc
OUTPUTS	CODE		
4-20 mA (2-wire)	A	Standard	Standard
0-5 Vdc (3-wire)	B	-	Available
1-2 mV/V (4-wire)	C	-	-
ACCURACY +/-			
0.50%	2	Standard	-
0.25%	3	-	Standard
0.15%	5	-	-
0.10%	6	-	Available
PRESSURE RANGES (See RANGE TABLE for Range Codes)		-30" Hg-0 psi thru 0-9,000 psi	-30" Hg-0 psi thru 0-1,000 psi
MODE			
Gage Pressure Reference	G	Standard	Standard
Absolute Pressure Reference	A	Available	-
PROCESS CONNECTION			
1/4" NPT (M)	01	-	-
1/4" NPT (F)	02	-	-
1/2" NPT (M)	03	-	-
7/16-20 UNF (M)	07	-	-
Autoclave F-250-C	11	-	-
Autoclave F-312-C	13	-	-
3/4-16 UNF (M) Flush Diaphragm	17	-	-
7/16-20 UNF(M) Flush Diaphragm	18	-	-
1/2" NPT (M) Flush Diaphragm	46	-	-
2" Tri-Clamp	28	Standard	Standard
Flush CLOG FREE sensor	36	-	-
7/16-20 UNF (M) with PVC cap	15	-	-
ELECTRICAL CONNECTION			
2' wire pigtail (NEMA 4X)	A402	Available	10' Wire pigtail is Standard
DIN 43650 connector with mate	D200	Standard	-
BENDIX 6 pin	B200	Available	-
1/2" NPT (M) conduit with 2' wire pigtail	A602	Available	Available
1/2 NPT (M) submersible conduit with 10' polyurethane cable	A510	-	-
10' vented polyurethane cable	A210	-	-
Solder Pins	E100	-	-
1/2" NPT (M) conduit with 20' wire pigtail	A620	-	-

Tel-Tru Pressure Transmitters Accurate, Robust, and Built to Last!

OTHER OPTIONS - Ranges, process and electrical connections, and options are available upon request. Please visit www.teltru.com for complete specifications and product information.

► PRESSURE TRANSMITTER TYPE AND SERIES		SUBMERSIBLE 400 SERIES	
		Industrial Submersible 	Precision Grade Submersible 
► STANDARD MODELS ► Intrinsically Safe Models (see www.teltru.com for standard product specs)		P411 P412	P421 -
APPLICATIONS:		<ul style="list-style-type: none"> Irrigation Level and Depth Measurement Underground Storage Water Resource Well Water 	<ul style="list-style-type: none"> Heavy Slurries Hydro Electric Level and Depth Measurement Waste Water Treatment
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):			
Excitation Voltage:		11-40 Vdc	8-38 Vdc
Proof Pressure:		1.6X FS thru 4X FS	2X FS
Burst Pressure:		2.8X FS thru 8X FS	5X FS
Response Time:		<3 ms	<5 ms
Wetted Materials:		Ceramic and 316L SS	316L SS
Protection Class:		IP68	IP68
Temperature Performance:			
• Operating Temperature Range (OTR)		-13 to 185°F (-25 to 85°C)	-40 to 200°F (-40 to 93.3°C)
• Compensated Temperature Range (CTR)		14 to 131°F (-10 to 55°C)	0 to 170°F (-17.8 to 76.7°C)
• Temperature Effect on Zero over the CTR		±0.014% FS/°F (±0.025% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
• Temperature Effect on Span over the CTR		±0.006% FS/°F (±0.010% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
Zero and Span Balance:		±0.5% FSO	±1.0% FSO
Long-Term Stability:		±0.5% FSO/year	±0.25% FSO/year
Insulation Resistance:		100 M-ohms @ 250 Vdc	1000 M-ohms @ 50 Vdc
OUTPUTS	CODE		
4-20 mA (2-wire)	A	Standard	Standard
0-5 Vdc (3-wire)	B	-	Available
1-2 mV/V (4-wire)	C	-	-
ACCURACY +/-			
0.50%	2	Standard	Standard
0.25%	3	-	Available
0.15%	5	-	-
0.10%	6	-	-
PRESSURE RANGES (See RANGE TABLE for Range Codes)		0-5 psi thru 0-200 psi	0-5 psi thru 0-300 psi
MODE			
Gage Pressure Reference	G	Standard	Standard
Absolute Pressure Reference	A	-	-
PROCESS CONNECTION			
1/4" NPT (M)	01	G 1/2 Standard (≤14 psi)	-
1/4" NPT (F)	02	CODE = 37	-
1/2" NPT (M)	03	-	-
7/16-20 UNF (M)	07	G 1/4 Standard (>14 psi)	-
Autoclave F-250-C	11	CODE = 47	-
Autoclave F-312-C	13	-	-
3/4-16 UNF (M) Flush Diaphragm	17	-	-
7/16-20 UNF(M) Flush Diaphragm	18	-	-
1/2" NPT (M) Flush Diaphragm	46	-	-
2" Tri-Clamp	28	-	-
Flush CLOG FREE sensor	36	-	Standard
7/16-20 UNF (M) with PVC cap	15	-	-
ELECTRICAL CONNECTION			
2' wire pigtail (NEMA 4X)	A402	IP68 Cable with Gland Standard	-
DIN 43650 connector with mate	D200	CODE = C206	-
BENDIX 6 pin	B200	-	-
1/2" NPT (M) conduit with 2' wire pigtail	A602	-	-
1/2" NPT (M) submersible conduit with 10' polyurethane cable	A510	-	Standard
10' vented polyurethane cable	A210	-	-
Solder Pins	E100	-	-
1/2" NPT (M) conduit with 20' wire pigtail	A620	-	-



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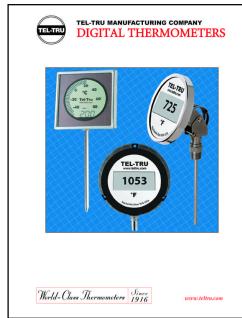
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► PRESSURE TRANSMITTER TYPE AND SERIES	SUBMERSIBLE 400 SERIES	DIFFERENTIAL 500 SERIES
	Precision Grade Submersible 	Precision Grade Differential 
► STANDARD MODELS ► Intrinsically Safe Models (see www.teltru.com for standard product specs)	P431 -	P521 -
APPLICATIONS:	<ul style="list-style-type: none"> Irrigation Level and Depth Measurement Underground Storage Water Resource Well Water Coal Bed Methane 	<ul style="list-style-type: none"> Hydraulics and Pneumatics Laboratory and Test Marine Offshore Petrochemical Pumps and Compressors
STANDARD SPECIFICATIONS (see www.teltru.com for non-standard specs):		
Excitation Voltage:	8-38 Vdc	8-38 Vdc
Proof Pressure:	2X FS	2X FS
Burst Pressure:	5X FS	5X FS (3 kpsi max)
Response Time:	<5 ms	<5 ms
Wetted Materials:	316L SS and 15-5 SS	316L SS
Protection Class:	IP68	NEMA 4X
Temperature Performance:		
• Operating Temperature Range (OTR)	-40 to 200°F (-40 to 93.3°C)	-40 to 200°F (-40 to 93.3°C)
• Compensated Temperature Range (CTR)	0 to 170°F (-17.8 to 76.7°C)	0 to 170°F (-17.8 to 76.7°C)
• Temperature Effect on Zero over the CTR	±0.015% FS/°F (±0.027% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
• Temperature Effect on Span over the CTR	±0.015% FS/°F (±0.027% FS/°C)	±0.015% FS/°F (±0.027% FS/°C)
Zero and Span Balance:	±1.0% FSO	±1.0% FS
Long-Term Stability:	±0.25% FSO/year	±0.25% FSO/year
Insulation Resistance:	1000 M-ohms @ 50 Vdc	1000 M-ohms @ 50 Vdc
OUTPUTS	CODE	
4-20 mA (2-wire)	A	Standard
0-5 Vdc (3-wire)	B	Available
1-2 mV/V (4-wire)	C	Available
ACCURACY +/-		
0.50%	2	-
0.25%	3	Standard
0.15%	5	-
0.10%	6	Available
PRESSURE RANGES (See RANGE TABLE for Range Codes)	-30" Hg-0 psi thru 0-750 psi	0-30 psi thru 0-10,000 psi
MODE		
Gage Pressure Reference	G	Standard
Absolute Pressure Reference	A	-
PROCESS CONNECTION		
1/4" NPT (M)	01	Available
1/4" NPT (F)	02	Standard
1/2" NPT (M)	03	-
7/16-20 UNF (M)	07	-
Autoclave F-250-C	11	-
Autoclave F-312-C	13	-
3/4-16 UNF (M) Flush Diaphragm	17	-
7/16-20 UNF(M) Flush Diaphragm	18	-
1/2" NPT (M) Flush Diaphragm	46	-
2" Tri-Clamp	28	-
Flush CLOG FREE sensor	36	-
7/16-20 UNF (M) with PVC cap	15	Standard
ELECTRICAL CONNECTION		
2' wire pigtail (NEMA 4X)	A402	Standard
DIN 43650 connector with mate	D200	Available
BENDIX 6 pin	B200	Available
1/2" NPT (M) conduit with 2' wire pigtail	A602	Available
1/2 NPT (M) submersible conduit with 10' polyurethane cable	A510	-
10' vented polyurethane cable	A210	-
Solder Pins	E100	-
1/2" NPT (M) conduit with 20' wire pigtail	A620	-

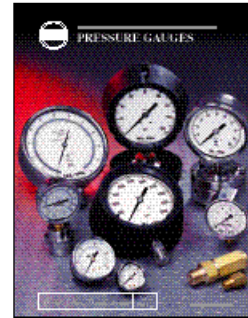
ADDITIONAL PRODUCTS AVAILABLE FROM TEL-TRU



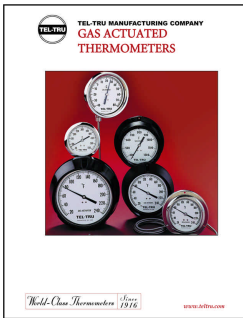
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Catalog number BT1100



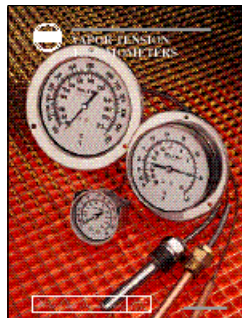
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Catalog number DT1002



Pressure Gauges
Catalog number PG0802



Gas Actuated Thermometers
Catalog number GA0203



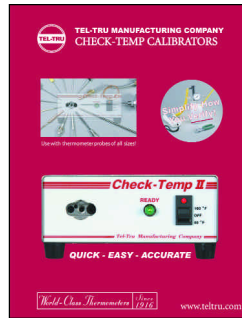
Vapor Tension Thermometers
Catalog number 8549



Glass Industrial Thermometers
Catalog number GI0702



Thermowells
Catalog number TW1000



Check-Temp Calibrators
Catalog number CTC401



Tel-Fast Non-Contact Thermometers
Catalog number TFSHT102



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