Nomenclature for Type PTSP / PTHP (P Cell) Pressure Transmitter

PT__ P __ __ __ __ __ __ __ __ __ __ __

03 05 06 07 08 09 10 11 12

Version
- SMART (Bailey FSK) ..... S
- HART™ ..... H

Measurement Type
- Absolute ..... A
- Gage ..... G

Measurement Range

Nominal Range		Minimum Range		Available Types	
kPa	psi	kPa	psi		
0 to 200	0 to 30	0 to 5	0 to 0.8	ALL	E
0 to 690	0 to 100	0 to 69	0 to 10	ALL	F
0 to 3000	0 to 450	0 to 75	0 to 11.3	PT_PA	G
0 to 3000	0 to 450	0 to 200	0 to 30	PT_PG	H
0 to 4000	0 to 5800	0 to 1000	0 to 145	ALL	J

Diaphragm, Material, and Fill Fluid

Diaphragm	Fill Fluid	Available Types	
Hast C-276	Silicone Oil	ALL	1

Pressure Connection Material
- Stainless Steel 316 1
- Hastelloy C-276 ..... A

Not Used - Enter Zero/Zero 00

Adapters and Mounting Bracket

Adapters (1 for PTSP)	Mounting Bracket	Available Types	
None	None	ALL	0
None	Zinc Plated Carbon Steel	ALL	1
None	316L SST	ALL	3
1/2 NPT Female 316 SST	None	ALL	A
1/2 NPT Female 316 SST	Zinc Plated Carbon Steel	ALL	B
1/2 NPT Female 316 SST	316L SST	ALL	D
1/2 NPT Female Hast C-276		None	M
1/2 NPT Female Hast C-276		Zinc Plated Carbon Steel	N
1/2 NPT Hast C-276	316L SST	ALL	Q

Certifications
- NEMA 4X - Bailey Standard 0
- NEMA 4X and FM and CSA Explosion-proof & Intrinsically Safe 2
- NEMA 4X and CENELEC Flame-proof & Instrinsically Safe 1

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Housing & Electrical Connection

Housing	Electrical Connection	Available Types	
Std-Low Copper Light Alloy AL	Two 1/2 NPT with One Plug	ALL	1
Stainless Steel 316 Housing	Two 1/2 NPT with One Plug	ALL	A

Indicator, Transient Suppressor and EZ Cal Option

Local Indicator	Transient Suppressor	EZ CAL Option W	Available Types	
Not Included	Not Included	Not Included	ALL	0
Not Included	Included	Not Included	ALL	1
Not Included	Not Included	Included	ALL	3
Not Included	Included	Included	ALL	4
Liq. Crystal Display	Not Included	Not Included	ALL	A
Liq. Crystal Display	Included	Not Included	ALL	B
Liq. Crystal Display	Not Included	Included	ALL	D
Liq. Crystal Display	Included	Included	ALL	E

Configuration, Tagging and Accessories (Manifolds)

Configuration	Customer Tagging	Accessories	Available Types	
Standard*	Not Included	None	ALL	0
Standard*	Riveted SST***	None	ALL	1
Standard*	Wired SST***	None	ALL	2
Standard*	Not Included	Mounted	ALL	4
Standard*	Riveted SST***	Mounted	ALL	5
Standard*	Wired SST***	Mounted	ALL	6
Custom**	Not Included	None	ALL	A
Custom**	Riveted SST***	None	ALL	B
Custom**	Wired SST***	None	ALL	C
Custom**	Not Included	Mounted	ALL	E
Custom**	Riveted SST***	Mounted	ALL	F
Custom**	Wired SST***	Mounted	ALL	G

* Standard: Transmitters will be calibrated to the nominal measurement range

** Custom: Transmitters will be calibrated to customer's specified measurement range.

*** All units are provided with nameplates (SS) riveted which include serial number and full model number. This option provides 2 lines of 15 characters for additional customer tagging information.

✷ EZ CAL cannot be used with Stainless Steel Housing Field 13 Item A.

Specifications for Type PTSPG (Gage) Pressure Transmitter

Measurement Range, Turndown Ratio, Zero Suppression and Zero Elevation: Lower range value (zero) and upper range value (100%) can be calibrated at any value of pressure provided that:

1. Their algebraic difference (the calibrated span) corresponds to an authorized turndown ratio
2. Both are within the following applicable limits

Type	International System Units					
	Range Limits		Span and Turndown Ratio (TDR)			
	Upper (kPa)	Lower (kPa)	Nominal (kPa)		Maximum (kPa)	
PTSPGF	690	-100	690	1:1 TDR	69	10:1 TDR
PTSPGG	3000	0	3000	1:1 TDR	200	15:1 TDR
PTSPGJ	40000	0	40000	1:1 TDR	1000	40:1 TDR

Type	American Units					
	Range Limits		Span and Turndown Ratio (TDR)			
	Upper (In. H_2O)	Lower (In. H_2O)	Nominal (In. H_2O)		Maximum (In. H_2O)	
PTSPGF	100	-14	100	1:1 TDR	10	10:1 TDR
PTSPGG	450	0	450	1:1 TDR	30	15:1 TDR
PTSPGJ	5800	0	5800	1:1 TDR	145	40:1 TDR

Types PTSPGG and PTSPGJ pressure transmitters are not compensated for baromatic pressure

Reference Accuracy-per IEC 770 and SAMA PMC

31.1: The reference accuracy includes the effects of linearity, hysteresis, repeatability and dead band. These values are for transmitters with zero based spans, silicone oil fill and Hastelloy C-276 isolating diaphragms at a reference temperature of 25°C (77°F). The value listed may vary depending on the URL and calibrated span of the particular transmitter.

- PTSPGF ±0.20% of Span or $\frac{0.016 \times URL}{Span}$ (% of Span) whichever is greater

- PTSPGG&PTSPGJ ±0.10% of Span or $\frac{0.008 \times URL}{Span}$ (% of Span) whichever is greater

Stability per 12 Month Period:

- PTSPGF -- ±0.2% of URL at reference conditions.
- PTSPFF & PTSPGJ -- ±0.1% of URL at reference conditions.