Position 5 6 7	8 9	9 10) 11	12	13	14	15	Platinum Standard HART Pressure								
P T H D			_	_	_	_	_	Transmitter — D Type Cell								
								High pressure s	ide flan	ge						
								Material	Purge Valve	Style	Types					
	2 _		_	-	-	-	-	Stainless steel 316	Side	North American 7/16 (ordered most)	All					
	4 _		_	-	-	-	_	Stainless steel 316	Rear	North American 7/16 (special)						
	В_		_	-	-	-	_	Hastelloy C-276	Side	North American 7/16						
	D _		_	_	-	-	-	Hastelloy C-276	Rear	North American 7/16 (special)						
	N _		_	_	-	-	-	Stainless steel 304	Remote seal	North American 7/16	Not PTHDA or PTHDDA					
								Low pressure si	de flang	je						
								Material	Purge Valve	Style	Types					
	2	2 _	_	-	-	-	-	Stainless steel 316	Side	North American 7/16 (ordered most)	PTHDD					
	2	4 _	_	-	-	-	-	Stainless steel 316	Rear	North American 7/16 (special)						
	E	3 _	_	-	-	-	_	Hastelloy C-276	Side	North American 7/16						
	[D _	_	_	-	_	_	Hastelloy C-276	Rear	North American 7/16 (special)						
	1	N _	_	_	-	-	_	Stainless steel 304	Remote seal	North American 7/16	PTHDD, not PTHDDA					

Table 1-2. Nomenclature (continued)

	Posit	tion	5	6	7	8	9	10	11	12	13	14	15	Plat	inum S	tandard	HART Pres	ssure					
F	Т	ΗD	_	_	_	_	_	_	_	_	_	_	_	Transmitter — D Type Cell									
														Bolting and O-rings ²									
														Polt Material	Rat	ting ³	O-Ring	Types					
														Boit Wateria	kPa	psi	Material	Types					
								1	-	_	-	-	-	Carbon steel (ordered most)	25,000	3,625	Viton [®]	Note 2					
								2	_	_	_	_	_	Stainless steel	20,000	2,900	-						
								3	-	-	-	-	-	ASTM A193 B7M: NACE Class 2	20,000	2,900	-						
								4	_	_	_	_	_	Carbon steel	41,000	6,000							
								5	_	_	_	_	_	Stainless steel	41,000	6,000							
								6	-	-	-	-	-	ASTM A193 B7M: NACE Class 2	41,000	6,000	-						
								А	_	_	_	_	_	Carbon steel	25,000	3,625	Teflon [®]	Note 2					
								В	_	_	_	_	_	Stainless steel	20,000	2,900	(PTFE)						
								С	-	-	-	-	-	ASTM A193 B7M: NACE Class 2	20,000	2,900							
								D	_	_	_	_	_	Carbon steel	41,000	6,000							
								Е	_	_	_	_	_	Stainless steel	41,000	6,000							
								F	-	_	-	-	-	ASTM A193 B7M: NACE Class 2	41,000	6,000	-						
								Μ	_	_	_	_	_	Carbon steel	25,000	3,625	Ethylene	Note 2					
								Ν	_	_	_	_	_	Stainless steel	20,000	2,900	propylene						
		F				Ρ	Ρ	Ρ	Ρ	-	-	-	-	-	ASTM A193 B7M: NACE Class 2	20,000	2,900	-					
								Q	_	_	_	_	_	Carbon steel	41,000	6,000							
								R	_	_	_	_	_	Stainless steel	41,000	6,000	1						
								S	-	-	-	-	-	ASTM A193 B7M: NACE Class 2	41,000	6,000	-						
								W	_	_	_	_	_	Carbon steel	25,000	3,625	Metal for	PTHDNN ²					
								Х	_	_	_	_	_	Stainless steel 20,000 2,900 vacuu	vacuum								
		Y	Y	-	_	-	-	_	ASTM A193 B7M: NACE Class 2	20,000	2,900	service											

Table 1-2. Nomenclature (continued)

Position 5 6 7 8 9 10	11	12	13	14	15	Platinum Standard HART Pressure									
PTHD	_	_	_	_	_	Transmitter — D Type Cell									
Adapters (two for PTHDD) and mounting bracket															
						Adapters		Mountin	g Bracket		Types				
	0	_	_	_	_	None	Nor	ie			All				
	1	_	_	_	_	None	Zind	c plated chrom	ate dipped C	steel					
	3	_	_	_	_	None	Stai	nless steel 31	6						
	A	-	-	-	-	1⁄2 NPT stainless steel 316	Nor	ie							
	В	_	_	-	_	1/2 NPT stainless steel 316	Zino	c plated chrom	ate dipped C	steel					
	D	-	_	_	_	1/2 NPT stainless steel 316	Stai	nless steel 31	6						
	м					1/2 NPT Hast C-2	76 Nor	ie.							
	N	_	_	_	_	1/2 NPT Hast C-2	76 Zino	c plated chrom	ate dipped C	steel					
	0	_	_	_	_	1/2 NPT Hast C-2	76 Stai	nless steel 31	6	01001					
	~	_	-	-	-	/2.01 1.0000 0 2			•						
		0 1 2				Certifications NEMA 4X - AB NEMA 4X and NEMA 4X and safe	e rtifications EMA 4X - ABB standard EMA 4X and CENELEC flameproof and intrinsically s EMA 4X and FM and CSA explosionproof and intrins afe								
						Housing and	d electrical connection								
						Housing	g Electrical (Connection	Туре	s				
			1	-	-	Standard - low C alloy Al	u light	Two ½ NPT v	with 1 plug A						
			А	_	_	Stainless steel 3	16	Two ½ NPT v	with 1 plug						
						Indicator, ligh	tning a	rrestor and	EZ CAL opt	tion					
						Indicator	Lightn	ing Arrestor	EZ CAL Op	tion ³	Types				
				0	_	Not included	Not incl	uded	Not included		All				
				1	_	Not included	Include	d	Not included		All				
				3	_	Not included	Not incl	uded	Included		All ³				
				4	_	Not included	Include	d	Included		All ³				
				А	_	LCD	Not incl	uded	Not included		All				
				В	_	LCD	Include	d	Not included		All				
				D	_	LCD Not included		Included		All ³					
				E	_	LCD Included		Included		All ³					
				IVI N	-	Analog meter Not included		Not included	All						
					-	Analog meter	Include	0 Valeal			All				
				P	-	Analog meter		uuea	Included						
				IX.	-	Analog meter Included Included /									

Table 1-2. Nomenclature (continued)

Pos	ition	5	6	7	8	9	10	11	12	13	14	15	5 Platinum Standard HART Pressure								
ΡΤ	HD)	_	_	_	_	_	_	_	_	_	_	Transmitter — D Type Cell								
													Configuration, tagging and accessories ⁴								
													Configuration	Configuration Customer Tagging Acce							
												0	Standard	Not included	Not included	All					
												1	Standard	Riveted stainless steel	Not included						
												2	Standard	Wired stainless steel	Not included						
												3	Standard	Standard Paper							
												4	Standard	Not included	Included						
												5	Standard Riveted stainless steel		Included						
												6	Standard	Wired stainless steel	Included						
												7	Standard	Paper	Included						
												А	Custom	Not included	Not included	All					
												В	Custom	Riveted stainless steel	Not included						
												С	Custom	Wired stainless steel	Not included						
												D	Custom Paper		Not included						
												Е	Custom Not included		Included						
												F	Custom Riveted stainless steel Incl		Included						
												G	Custom	Included							
												Н	Custom Paper Included								

Table 1-2. Nomenclature (continued)

NOTES:

1. Units will be set to the nominal range. Specific customer calibrations are selected in nomenclature position 15. Refer to Table 1-8 for help.

 Exceptions to the pressure ratings listed are: Type PTHDDA pressure transmitters are 2,000 kPa (300 psi); Types PTHDDH and PTHDGH pressure transmitters are 14,000 kPa (2,000 psi); all transmitters with tantalum diaphragms (3, C or G in nomenclature position 7) are 14,000 kPa (2,000 psi). High static pressure bolting and flanges (4, 5, 6, D, E, F, Q, R or S in nomenclature position 10) are only available for Types PTHDDB/C/D/F/G pressure transmitters, excluding those with tantalum diaphragms.

3. EZ CAL option cannot be used on transmitters with stainless steel housings (A in nomenclature position 13).

4. Typical accessories are mounted remote seals, manifolds, and integral orifice plates.

SPECIFICATIONS

The specifications are organized into separate tables. First is a list of specifications common to all Type PTHD pressure transmitters. This is followed by specifications unique to each of the three measurement applications (differential, gage and absolute pressure).

Common Specifications

Tables 1-3 and 1-4 list the specifications common to all Type PTHD pressure transmitters.

Property			Ch	aracteristic	/Value								
Reference conditions													
Temperature	15.0° to 35.5°C (59.0° to 95.9°F)												
Humidity	45% to 75%												
Barometric pressure	86.0 to 106.0 kPa (12.5 to 15.4 psi)												
Temperature limits for	Electronics ¹ Cell ^{1,2} LCD ³												
electronics, cell and	Parameter	°C	°F	°C	°F	°C	°F						
display	Normal op	-40 to +85	-40 to +185	-40 to +85	-40 to +185	0 to +50	+32 to +122						
	Extreme op	-50 to +85	-58 to +185	-50 to +120	-58 to +248	0 to +50	+32 to +122						
	Storage/ transport	-55 to +85	-67 to +185	-55 to +85	-67 to +185	-20 to +70	-4 to +158						
Humidity limits	5% to 100% the conduit	% noncond ∷is sealed	ensing conti	nuous when	the covers	are properl	y installed and						
Supply voltage ^{4,5}	12 to 53 VDC (12 to 42 VDC for CSA certified applications). Installation category III												
Power supply effect	±0.005% of URL per volt												
Output signal													
Analog	4 to 20 mA												
Digital	HART com	municatior	IS										
Output current limiting													
Maximum	≥21.6 mA												
Minimum	≤3.9 mA												
Loop load limits	Refer to Fig	gure <mark>2-3</mark>											
Damping/response time (one time con- stant - approximately 62% of final reading)	Analog and digital response to a step input change is adjustable from 0.0 to 32.0 secs and is entered during configuration. This value is in addition to: Cell response time: dependent on cell and fill fluid Electronics response time: approximately 0.3 secs												
A/D sample rate	8 times per sec												
RFI/EMI effects	±0.1% of URL in fields from 4 to 1,040 MHz at 10 V/m												
Burst	Complies with IEC 801-4 test criteria												
Vibration effect	±0.1% of U	RL for 1 g	from 1 to 2,	000 Hz in ar	ny axis of the	e transmitte	er						
Enclosure rating	NEMA 4X a	and IP67											