

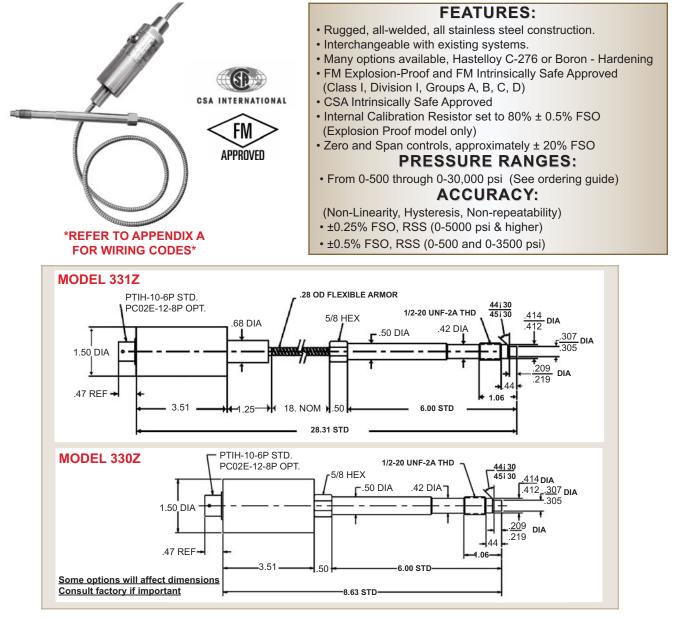
MELT PRESSURE TRANSDUCERS & TRANSMITTERS 300 Industrial Drive, Grand Island, NY 14072 USA Tel. (716)775-8830 • Fax (716)775-8020 • sales@gp50.com • www.gp50.com

## Product Specification Sheet PLASTIC MELT PRESSURE TRANSDUCER/TRANSMITTER FOR HAZARDOUS ENVIRONMENTS Models 230X, 231X / 330X, 331X / 330Z, 331Z

## GENERAL

The GP:50 product line of melt pressure transducers and transmitters are based on the proven bonded strain gage principle successfully utilized in thousands of applications. Our unique design incorporates a heavier sensor allowing a thicker tip diaphragm, provides better linearity, and reduces costs.

The design incorporates an extremely small capillary tubing that transmits the media pressure to the strain gage sensor and mating electronics via a mechanical fill fluid. (Mercury is the standard, silicone oil, mineral oil and Nak are readily available depending on the application).



GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.



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Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

curacy	Static Error Band (Non-linearity, Hysteresis, Non-repeatability) ±0.5% FSO(RSS) 500 through 3500 psi ±.25% FSO(RSS) 5000 through 30000 psi															
aterial in Cor	ntact with P	ressure	Media 15-5 PH	stainless ste	el, Armoloy coa	ted (hard	chrome)	Diamor	nd, Bo	ron or	Titanium	Nitride o	coating	s optiona	l	
oof Pressure	• 2	times f	ull scale pressur	e range or 35	000 psi whiche	ver is les	s									
emperature Limits			wailable with Na <b>gm -</b> 750°F (400	Strain Gauge	e Housir	<b>ıg -</b> 176°F	(80°C)	)								
		m Diaphragm From Fill From Strain Gauge Housing			Zero - 8 psi/100°F per inch of stem and capillary Zero Span - Less than ±1.0% FSO/100°F (±2.0% FSO/100°C)											
lectricals			and Guuge no.	Voltage	2000 1101		out at 7		2.0 /0 1	00/100	5)					
		(Model 230/231) (Model 330/331) Zero Balance (Model 230/231) (Model 330/331) Input Current (Model 230/231) Load Impedance (Model 330/331)		9-40 Vdc 9-36 Vdc 0.0 Vdc ±2% FSO at 70°F 4.0 mA ±2% FSO at 70°F 8 mA nominal		5.0 Vdc ±2% 4-20 mA ±2%										
							Output Current 2.0 mA maximum for less than 0.1% FSO attenuation.									
				1350 ohms max. at 36 Vdc & 750 ohms 24 Vdc												
		Range Ca. Signal 80% ±0.5%			FSO standard 100, 200 series											
onnections	E	Pressure - 1/2" - 20 UNF-2A thread for standard (M18 x 1.5 metric thread optional) Electrical - PTIH-10-6P, standard intrinsically safe models PT06A-10-6S (SR), standard mate (not included) See options. 1/2 NPT (M) 72" leads Explosion Proof Models														
closed Mate	rials 3	16 stain	less steel													
ounting Torq			pounds, maximi													
entification	E	tched s	tainless steel na	meplate weld	ed to body.											
1 3 2 (	<b>RICAL OUT</b> 3.33 mV/V 0-5 Vdc	PUT												CAPILI	LARY TUBE LENGTH	
3 4	4-20 mA													Blank	18 Inch (457.2mm) F	
BASE M	IODEL													HS	9 Inch (228.6mm) Fle	
	Rigid Stem (		_ ←											HY	12 Inch (304.8mm) F	
1 F	Rigid Stem a	and Flex												HV GT	24 Inch (609.6mm) F 30 Inch (762mm) Fle	
HAZARI	DOUS APPI	ROVAL												01	50 IIICII (702IIIIII) FIE	**
	Explosion P												RIGI	D STEM	LENGTH	
	& CSA Expl & CSA Intrir												Blan	k 6 Inc	nch (152.4mm) Rigid Stem	
			bale										HJ		6 Inch (30.2mm) Rigid	
	JRE RANG		50 D 1 D										HD		h (76.2mm) Rigid Ster	
	00 PSI		50 BAR						L				HU GO	_	h (101.6mm) Rigid Ste h (228.6mm) Rigid Ste	
	50 PSI	UX UY	75 BAR 100 BAR										GN		Inch (317.5mm) Rigid Ste	
	,000 PSI	UZ	150 BAR										HT		ch (609.6mm) Rigid St	
	,500 PSI	VA	200 BAR													
	,000 PSI	VB	300 BAR									DIA	PHRA	GM OPT	IONS	
	2,500 PSI	VC	350 BAR 500 BAR									Bla			Armoloy Coated Diaphr	ragm
	5,000 PSI	VD VE	500 BAR 700 BAR									GP			C-276 Diaphragm & T	
	,500 PSI	VF	750 BAR					۱ '				GQ			rdened Diaphragm	
	0,000 PSI	UA	1,000 BAR									JW		Titanium I Threads	Nitride Coated Diaphra	ıgm 8
	5,000 PSI	UH	1,400 BAR									QS			Coating (DLC)	
	0,000 PSI	UB	1,500 BAR													
	0,000 PSI Custom	UC SZ	2,000 BAR Custom													
													L TYPE			
	CTOR OPT											Bla			Standard - Included)	
	6-Pin Bendi Standard fo											GV			il Fill (500°F Max)	
			cally Safe transo d with 72" Leads					_				GX	1	Mineral O	oil Fill (500°F Max)	
Blank 1/2" NPT (M) Thread with 72" Leads - Standard for Explosion Proof transducers																
CC	8-Pin Bendi		,		ther Option				<b>F</b> . (							
CF			d with 36" Leads													