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

TRANSDUCER/TRANSMITTER &TEMPERATURE PROBE

Models 135, 235, 335

REFER TO APPENDIX A FOR WIRING CODES

FEATURES:

- Pressure and temperature measurement from a single mounting well
- Rugged, all-welded, all stainless steel construction
- Interchangeable with existing systems
- Adjustable calibration signal option
- Replaceable thermocouple during use (Type J std.)
- Internal Calibration Resistor set to 80% ±0.5% FSO
- Zero and Span controls, approximately ±20% FSO (235, 335 only)

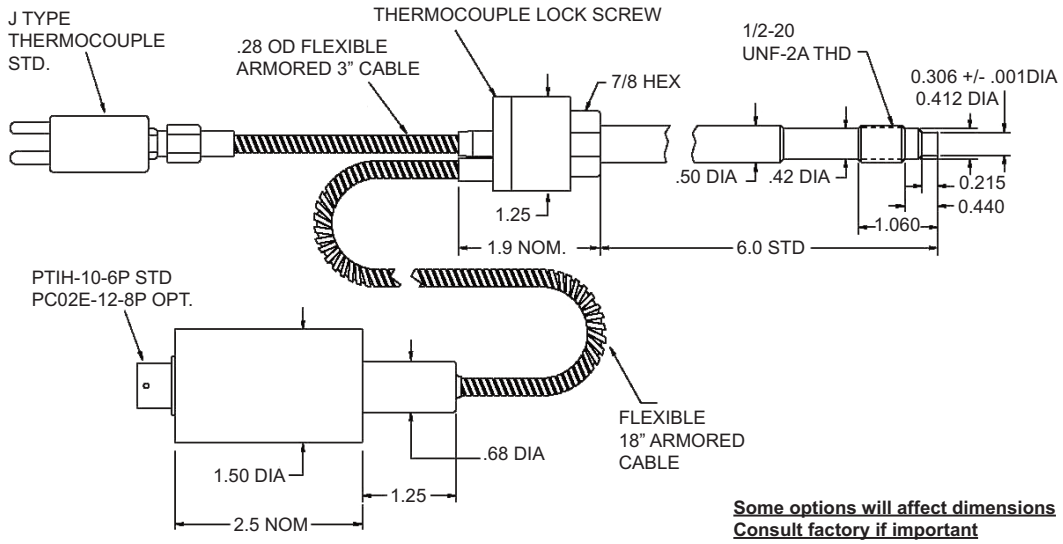
PRESSURE RANGES:

- From 0-500 through 0-30,000 psi (See ordering guide)

ACCURACY:

(Non-Linearity, Hysteresis, Non-repeatability).

- ±0.25% FSO, RSS (0-5000 psi & higher)
- ±0.5% FSO, RSS (0-500 and 0-3500 psi).



Some options will affect dimensions
Consult factory if important

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

Material in Contact with Pressure Media	15-5 PH Stainless steel and chrome plated diaphragm surface.
Proof Pressure	2 times full scale pressure range or 35,000 psig whichever is less
Temperature Limits	Diaphragm: 750ºF (400ºC),1000ºF available w/ NaK fill Strain Gauge Housing: 176ºF (80ºC)
Temperature Effects	From Diaphragm: 15PSI/100ºF From Strain Gauge Housing: Zero/Span - Less than ± 1.0% FSO/100ºF (± 2.0% FSO/100ºC)
Electricals	Excitation Voltage **(Model 135)** 3.5-15 Vdc **(Model 235)** 9-40 Vdc **(Model 335)** 9-36 Vdc Output at 70° F **(Model 135)** 3.33 mV/V ± 2% **(Model 235)** 5.0 Vdc ±2% **(Model 335)** 4-20 mA ±2% Zero Balance **(Model 135)** 0.0 mV/V ±5% FSO at 70°F **(Model 235)** 0.0 Vdc ±2% FSO at 70°F **(Model 335)** 4.0 mA ±2% FSO at 70°F Input Impedance **(Model 135)** 350 ohm, nominal **(Model 335)** Load Impedance 50,000 ohms minimum for less than 0.1% FSO attenuation 1350 ohms max. at 36 Vdc & 750 ohms 24 Vdc Input Current **(Model 235)** 8 mA nominal Output Current 2.0 mA maximum for less than 0.1% FSO attenuation **Range Ca. Signal** 80% ±0.5% FSO standard
Signal Connector	PTIH-10-6P, standard, Mate PT06A-10-6S (SR), not included
Thermocouple Connector	Standard 2 pole, 7/16" pin spacing
Pressure Connection	1/2" - 20UNF - 2A thread for standard extruder pressure port
Mounting Torque	500 inch pounds, maximum

ORDERING GUIDE

Model: X 35 - XX - XX / XX / XX / XX / XX / XX

ELECTRICAL OUTPUT	
1	3.33 mV/V
2	0-5 Vdc
3	4-20 mA

BASE MODEL	
35	Rigid Stem & Flex with J-Type Thermocouple

PRESSURE RANGE			
RH	500 PSI	UV	50 BAR
RJ	600 PSI	UX	75 BAR
RK	750 PSI	UY	100 BAR
RM	1,000 PSI	UZ	150 BAR
RO	1,500 PSI	VA	200 BAR
RR	2,000 PSI	VB	300 BAR
RS	2,500 PSI	VC	350 BAR
RT	3,000 PSI	VD	500 BAR
RV	5,000 PSI	VE	700 BAR
RX	7,500 PSI	VF	750 BAR
RZ	10,000 PSI	UA	1,000 BAR
SB	15,000 PSI	UH	1,400 BAR
SD	20,000 PSI	UB	1,500 BAR
SF	30,000 PSI	UC	2,000 BAR
SZ	Custom	SZ	Custom

CONNECTOR OPTIONS	
Blank	6-Pin Bendix (PTIH-10-6P)
CC	8-Pin Bendix (PCO2E-12-8P)
CF	1/2" NPT (M) Thread with 36" Leads

*** Other Options Available - Consult Factory**

CAPILLARY TUBE LENGTH	
Blank	18 Inch (457.2mm) Flex
HS	9 Inch (228.6mm) Flex
HY	12 Inch (304.8mm) Flex
HV	24 Inch (609.6mm) Flex
GT	30 Inch (762mm) Flex

RIGID STEM LENGTH	
Blank	6 Inch (152.4mm) Rigid Stem
HJ	1 3/16 Inch (30.2mm) Rigid Stem
HD	3 Inch (76.2mm) Rigid Stem
HU	4 Inch (101.6mm) Rigid Stem
GO	9 Inch (228.6mm) Rigid Stem
GN	12.5 Inch (317.5mm) Rigid Stem
HT	24 Inch (609.6mm) Rigid Stem

DIAPHRAGM OPTIONS	
Blank	15-5 PH Armoloy Coated Diaphragm
GP	Hastelloy C-276 Diaphragm & Threads
GQ	Boron Hardened Diaphragm
JW	Titanium Nitride Coated Diaphragm & Threads
QS	Diamond Coating (DLC)

FILL TYPES	
Blank	Mercury (Standard - Included)
QJ	Nak Fill (750ºF Max)
GW	Nak Fill with Inconel Diaphragm (1000ºF max)
GV	Silicon Oil Fill (500ºF Max)
GX	Mineral Oil Fill (500ºF Max)