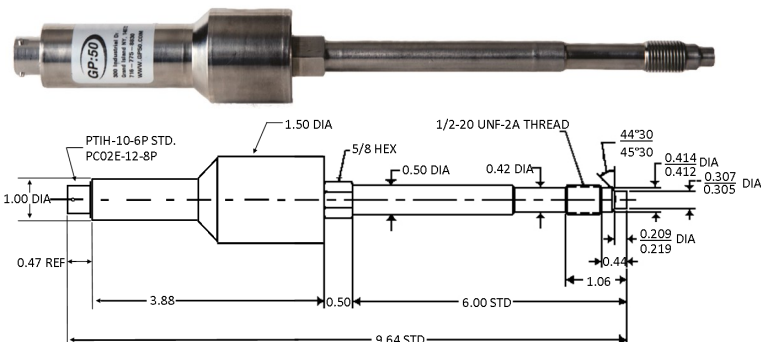


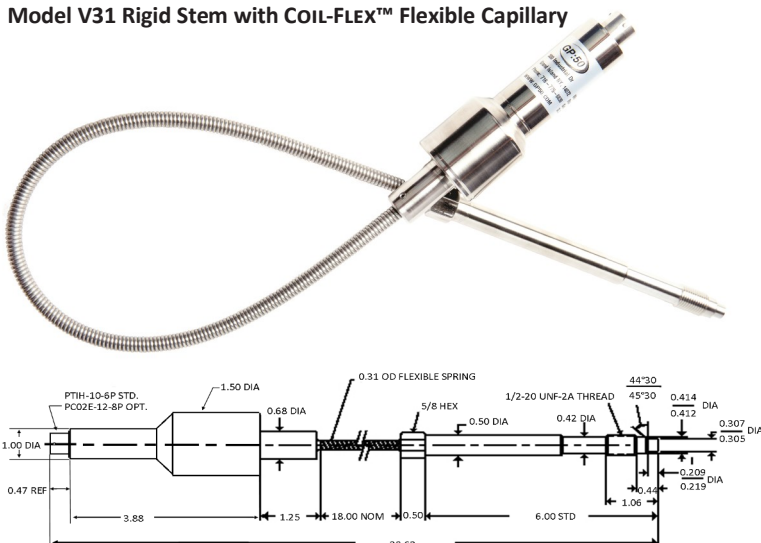
V-SERIES

PREMIUM ACCURACY MELT PRESSURE TRANSDUCER / TRANSMITTER MODELS V130, V131, V135 / V230, V231, V235 / V330, V331, V335

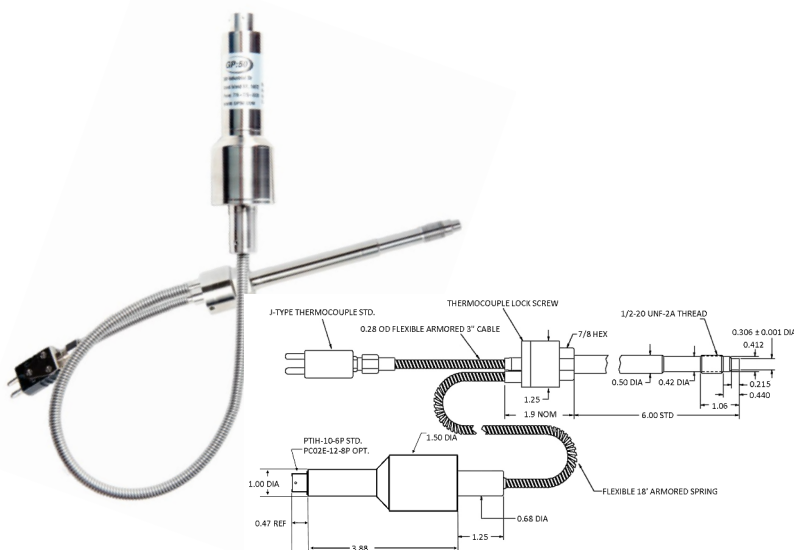
Model V30, Rigid Stem Only



Model V31 Rigid Stem with COIL-FLEX™ Flexible Capillary



Model V35 Combination Temperature and Pressure



A signature performance attribute of GP:50 Melt Pressure sensing instrumentation is its capability to maintain full service life performance accuracy. To ensure this, each transducer design incorporates a specialty tip diaphragm with a proprietary advanced matched system. This ensures that individual sensor components maintain structural integrity and maximum response. In addition, each GP:50 Melt Pressure sensor is manufactured from only the highest grade specialty metals. This approach ensures consistent sensor mechanical functionality with increased cycles. It also eliminates the unwanted effects of short-term hysteresis that are common to other industry models.

FEATURES

- ◆ Completely Welded Stainless Construction
- ◆ Interchangeable with existing sensors
- ◆ High-quality, superior electronics
- ◆ Vibration Protected Housing
- ◆ Auto Zero calibration option (200 & 300 units)
- ◆ Advanced diaphragm for increased cycles

PRESSURE RANGES

From 0-500 to 0-30,000 PSI

(see ordering guide)

ACCURACY

±0.25% Premium FSO

MADE IN THE U.S.A.

MODELS V130, V131, V135 / V230, V231, V235 / V330, V331, V335

SPECIFICATIONS

Full Scale Pressure Ranges	See ordering guide			
Accuracy	±0.25 % FSO Accuracy,			
Material in Contact with Pressure Media	17-4 PH Stainless Steel diaphragm with GPX coating, optional diaphragm materials available			
Proof Pressure	2 times the full scale pressure range up to 35,000 PSI			
Temperature Limits	Diaphragm 750°F (400°C)	Strain Gauge Housing 176°F (80°C)		
Temperature Effects	From Diaphragm Zero—15 PSI / 100°F	From Strain Gauge Housing Zero / Span—Less than ±1.0% FSO / 100°F (±2.0% FSO / 100°C)		
Electricals		(V100 Models—3.33 mV/V)	(V200 Models—0-10 Vdc)	(V300 Models—4-20 mA)
	Excitation Voltage	3.5—15 Vdc	14—36 Vdc	14-36 Vdc
	Output at 70°F	3.33 mV/V ±2.0% FSO	10.0 Vdc ±2.0% FSO	4-20 mA ±2.0% FSO
	Input Impedance	350 ohm, nominal		
	Input Current		8 mA, nominal	
	Output Current		2.0 mA maximum for less than 0.1% FSO attenuation	
	Load Impedance	50,000 ohms minimum for less than 0.1% FSO attenuation		1350 ohms max, at 36 Vdc and 750 ohms 24 Vdc
	Zero Balance	0.0 mV/V ±5.0% FSO at 70°F	0.0 Vdc ±5.0% FSO at 70°F	4.0 mA ±5.0% FSO at 70°F
Range Calibration Signal	80% ±5.0% FSO	80% ±5.0% FSO	80% ±5.0% FSO	
Connections	Pressure 1/2" - 20—UNF—2A	Electrical PTIH—10—6P standard, 8-pin and other connectors available		
Enclosed Materials	316 Stainless Steel			
Mounting Torque	180-200 inch pounds, 500 inch pounds thread limitation			

ORDERING GUIDE

MODEL: VX 3X—XX—XX / XX / XX / XX / XX / XX / XX

ELECTRICAL OUTPUT		TEMPERATURE SENSOR OPTIONS	
1	3.33 mV/V	AA	J-Type Thermocouple
2	0—10 Vdc	GU	K-Type Thermocouple
3	4—20 mA	JA	100 ohm RTD (3 wire)
		JD	Dual Thermocouple, J-Type std. (Male not incl.)
BASE MODEL		CAPILLARY TUBE LENGTH	
0	Rigid Stem Only	AA	18 inch (457.2 mm) Flex
1	Rigid Stem / Flex	HS	9 inch (228.6 mm) Flex
5	Rigid Stem / Flex with Thermocouple	HY	12 inch (304.8 mm) Flex
PRESSURE RANGE		HV	24 inch (609.6 mm) Flex
RH	500 PSI	GT	30 inch (762 mm) Flex
RJ	600 PSI	RIGID STEM LENGTH	
RK	750 PSI	AA	6 inch (152.4 mm) Rigid Stem
RM	1,000 PSI	HJ	1 3/16 inch (30.2 mm) Rigid Stem
RO	1,500 PSI	HD	3 inch (76.2 mm) Rigid Stem
RS	2,500 PSI	HU	4 inch (101.6 mm) Rigid Stem
RT	3,000 PSI	GO	9 inch (228.6 mm) Rigid Stem
RV	5,000 PSI	GN	12.5 inch (317.5 mm) Rigid Stem
RX	7,500 PSI	DIAPHRAGM OPTIONS	
RZ	10,000 PSI	AA	17—4 SS GPX Coated Diaphragm
SB	15,000 PSI	GK1	Inconel Diaphragm
SF	30,000 PSI	GP	Hastelloy C-276 Diaphragm
SZ	_____ PSI Custom	NK	Reinforced Diaphragm
		NIL	Double Thick Diaphragm
		QS2	Titanium Nitride Coated Diaphragm
FILL TYPES		CONNECTOR OPTIONS	
AA	Mercury Fill	AA	6-Pin Bendix (PTIH-10-6P)
QJ	NaK Fill (750°F Max)	CC	8-pin Bendix (PCO2E-12-8P)
GW	NaK Fill with Inconel Diaphragm (1000°F)	CF	1/2" NPT (M) Thread with 36" Leads
GX9	ASF non-mercury fill	CALIBRATION	
		AA	Zero & Span
		AZ	AutoZero, 200 and 300 Models only

Other Options Available—Consult Factory / Authorized Distributor

Option "AA" denotes standard

Example P/N: V131-RZ-AA

MELT PRESSURE ACCESSORIES

Maintenance Accessories for the prolonged life of GP:50 Transducers and Transmitters.

For more information or product availability, please contact your factory authorized Distributor/Rep.

HOLE MACHINING TOOL KIT



The Hole Machining Tool Kit contains all of the necessary drills and taps to prepare a standard 1/2 - 20 UNF transducer mounting hole. The kit contains the special pilot drill required to machine the 45 degree seat. All tools included in this kit are made of premium grade, high strength tool steel. Care should be taken in the use of proper speeds and feeds, lubricants, and a method to assure continual alignment of each progressing tool.

HOLE CLEANING TOOL KIT



The Cleaning Tool Kit removes unwanted plastic residue from mounting holes before transducer installation. A major cause of damage during installation practices is a transducer installed in a plugged or dirty mounting hole. The Cleaning Tool Kit will give a thorough cleaning of the mounting hole, while also checking the stability of the hole itself. Cleaning tools are available for 1/2-20 mounting holes and M18 X 1.5 mounting holes.

TRANSDUCER SIMULATOR / TESTER



The TST-MV/V simulates the output of any melt pressure transducer, (3.33 mV/V output), adjustment settings for various pressure levels when testing output for existing melt pressure transducers. The simulator is available with standard 6-pin connector or 8-pin (with adaptor cable).

MELT SENSOR TORQUE WRENCH



Precision Melt Pressure Torque Wrench for the recommended torque of melt pressure transducers and temperature sensors. This unit is designed to improve transducer accuracy and life expectancy by avoiding unaccountable additional torque to the threads and seat of 1/2-20 UNF transducers, while eliminating the possibility of side force trauma to the transducer tip diaphragm area.

ADDITIONAL ACCESSORIES

GP:50 also offers transducer mounting brackets, replacement thermocouples, adaptor cables and a variety of installation items to make your installation complete.