VEHICLE TEST PRESSURE TRANSDUCER / TRANSMITTER

Models 142, 242, 342

Developed specifically for the harsh operating environments encountered in ground support testing, these units feature the latest blend of mechanical and circuit technology to achieve superior ruggedness, accuracy, and fatigue life. When you need assistance with your pressure application, call GP:50.

FEATURES:

- Accurate to ±0.2% FSO (Optional ±0.1% FSO)
- Environment proof
- All-welded, hermetically sealed, stainless steel
- Indestructible totally encapsulated electronics
- Wide temperature operating range
- Compact size

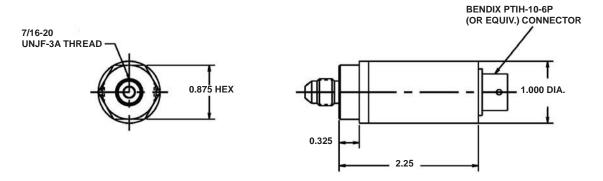
PRESSURE RANGES:

• From 0-15 psi to 0-15,000 psi

ACCURACY:

• From 0.2% to 0.1%





Some options will affect dimensions. Consult factory if important.

WIRING CODE

	142	242	342
A/1	+ EXC.	+ EXC.	+ EXC./SIGNAL
B/2	+ SIGNAL	+ SIGNAL	NC
C/3	- SIGNAL	NC	NC
D/4	- EXC.	- EXC./SIGNAL	- EXC./SIGNAL
E/5	NC OPTION GH	NC OPTION GH	NC OPTION GH
F/6	NC OPTION GH	NC OPTION GH	NC OPTION GH

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.

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

Accuracy	Within ±0.2% FSO, RSS (includes the effects of non-linearity, hysteresis, non-repeatability) ±0.1% FSO, RSS Available				
Full Scale Output (FSO)*	(Model 142) 3.0 mV/V ±0.5% FSO at 70°F	(Model 242) 5.0 Vdc ±0.5% FSO at 70°F	(Model 342) 20 mA ±0.5% FSO at 70°F		
Wetted Parts	Types 316 and 15-5 PH stainless steel				
Temperature Limits					
Compensated Operating	-40°F to +250°F -65°F to +275°F				
Temperature Compensation					
Zero Span	Within ±0.0075% FSO/°F Within ±0.0075% FSO/°F				
Electricals	(Model 142)	(Model 242)	(Model 342)		
Excitation Voltage Output at 70° F	3.5-15 Vdc 3 mV/V ±0.5% FSO	9-40 Vdc 0-5 Vdc ±0.5% FSO	9-36 Vdc 4-20 mA ±0.5% FSO		
Input Impedance,	5,000 ohms, nominal	0-5 VdC ±0.5% FSO	4-20 IIIA ±0.5% F50		
Load Impedance,	50,000 ohms minimum, for less than 0.1% FSO		1350 ohms maximum at 36 Vdc		
Zero Balance*	0.0 mV/V ±0.5% FSO at 70°F	0.0 Vdc ±0.5% FSO at 70°F	4.0 mA ±0.5% FSO at 70°F		
Input Current,		10 mA, nominal			
Output Current		2.0 mA, maximum for less than	0.1%FSO attenuation		
Mechanicals					
Proof Pressure* Burst Pressure	2 times full scale pressure range 5 times full scale pressure range	e or 22,500 psi, whichever is less			
Case Materials	316 Stainless steel				
Weight	5oz. nominal				
Identification	Etched stainless steel nameplate welded to body				
Connections Pressure*	M922656 4 (7/46 20 mg/s three	4)			
Pressure* MS33656-4 (7/16-20 male thread) Electrical Bendix PTIH-10-6P connector or equiv.					

^{*} See modifications on ordering guide.

ORDERING GUIDE:

Ordering: Specify model, and pressure range and indicate modifications or accessories required. Use the following codes to identify desired item. Example: 142-C-RD-6-CM

MODEL	SERIES	RANGE	TYPE	OPTIONS
• -	_ • -	-	_ • -	_ •/•

MODEL 142 3 mV/V		OPTIO	OPTIONS			
242 0	- 5 Vdc - 20 mA			CONNE	ECTORS PTIH-10-6P (Std)	
ACCURACY (Series) C 0.2% FSO		DA	DIN43650, Form C with mate			
-	.1% FSO			PRESS	PRESSURE PORT	
PRESSURE RANGE (PSI)		AA	MS33656-4 (7/16-20 male thread for 1/4" tubing) Std.			
PP 15			750	FJ	1/4" NPT male thread	
PR 20	-		1,000	FL	1/8" NPT male thread	
PT 30	80		1,500	LT	SAE-4 (M) 7/16-20 UNF	
PV 50			2,000	LH	SAE-6 (M) 9/16-18 UNF	
PX 7			3,000	FO	1/4" (M) BSPP	
PZ 10	00	RV	5,000			
RB 15	•		GENEF	GENERAL		
RD 20	.00	RΖ	10,000	GB	Alternate electronic output, specify zero and span output values	
RE 0-	-250	SB	15,000	GG	Alternate shunt calibration signal	
RF 30	00	SZ	Other	GH	Internal shunt calibration, to 100% ±0.5% FSO	
RH 50	00			GS	0-10 Vdc FSO output (requires 16-40 Vdc excitation)	
PRESSURE TYPE		HL	RFI Protection (increases length by 0.5")			
3 Absolute		MK	350 ohm strain gauge bridge			
	ealed Gau	qe		MX	EMI Protection (must order w/option HL)	

