

FUTEK/EFE MODEL PMP940 SERIES *ULTRA MINIATURE TITANIUM PRESSURE SENSOR*

Drawing Number: FI1156-C

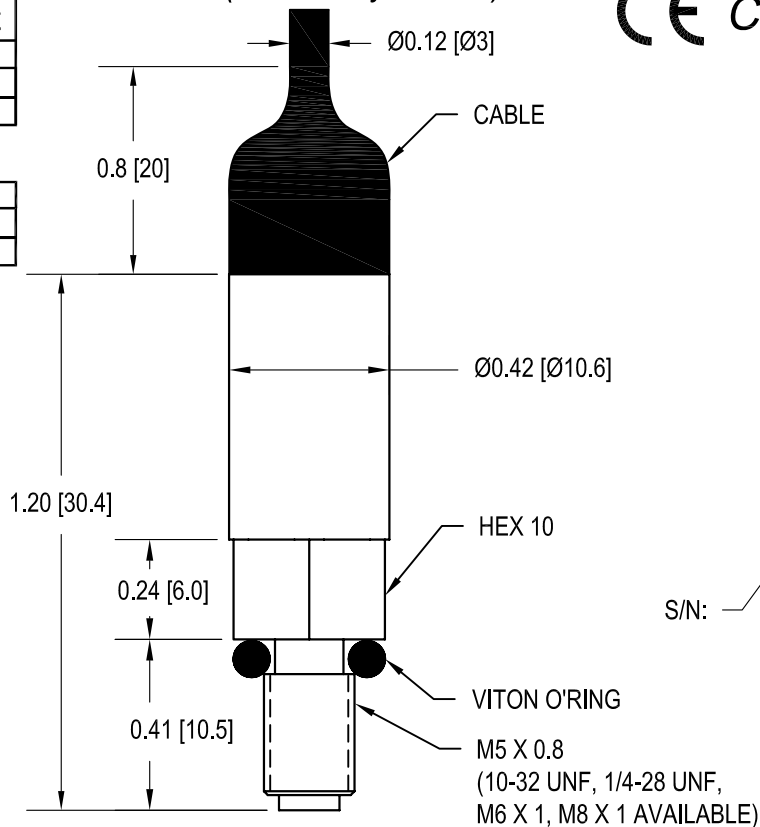
INCH [mm] R.O.= Rated Output

PMP941 WIRING CODE (WC1)			
+Excitation	-Excitation	+Signal	-Signal
RED	BLUE OR BLACK	GREEN OR YELLOW	WHITE

Shield
GROUND

PMP943/947 WIRING CODE (WC5)		
+Excitation	+Signal	COMMON
RED	GREEN OR YELLOW	BLUE OR BLACK

- THIN FILM TECHNOLOGY
- ALL TITANIUM CONSTRUCTION
- mV/V OUTPUT OR 4.5 V
- AVAILABLE IN ABSOLUTE
- ULTRA MINIATURE Ø10.6 mm
- LIGHT WEIGHT



CE COMPLIANT

SPECIFICATIONS	MODEL PMP941	MODEL PMP943	MODEL PMP947
RATED OUTPUT (100%)	1.5 mV / V	4.5 VDC	4.5 VDC
RATED OUTPUT (-100%) FOR +/- CAPACITY	PROPORTIONAL TO 100%	0.5 VDC	0.5 VDC
ZERO BALANCE	0 mV ± 3% of R.O.	0.5 VDC ± 0.05	0.5 VDC ± 0.05
EXCITATION	5 to 15 VDC	5 VDC ± 10mV	8 to 16 VDC

TECHNICAL SPECIFICATIONS:

$$\text{CAPACITY: } \left(\frac{\text{PSI}}{\text{BAR}} \right) \left(\frac{-14.5/+58}{-1/+4} \right) \left(\frac{-14.5/+130}{-1/+9} \right) \left(\frac{72}{5} \right) \left(\frac{145}{10} \right) \left(\frac{290}{20} \right) \left(\frac{580}{40} \right) \left(\frac{1015}{70} \right) \left(\frac{3626}{250} \right) \left(\frac{5800}{400} \right)$$

TYPE: GAGE, SEALED GAGE FOR > 40 BAR CAPACITY

PERFORMANCE:

RATED OUTPUT:	SEE CHART
SAFE OVERLOAD:	150% of R.O.
BURST PRESSURE:	300% of R.O.
ZERO BALANCE:	SEE CHART
EXCITATION (VDC)	SEE CHART
COMBINED NONLIN. & HYSTERESIS	< ± 0.25% of R.O. B.F.S.L.
NONREPEATABILITY	± 0.02% of R.O. Type
SIGNAL BANDWIDTH (ELECTRONIC)	1000 Hz @ -3 dB
INSULATION RESISTANCE	> 1000 MΩ @ 50Vdc AND 20°C
BRIDGE RESISTANCE	3500 Ω ± 20% (PMP941 only)
CALIBRATION	CERTIFICATE OF CONFORMANCE INCLUDED
	NIST TRACEABLE 5 pt. CALIBRATION AVAILABLE

MECHANICAL SPECIFICATION:

WEIGHT:	< 10g WITHOUT CABLE
WETTED/ BODY MATERIAL:	TITANIUM
CAVITY VOLUME:	< 130 mm ³
ENCLOSURE PROTECTION:	NEMA 4 (IP 65) FOR SEALED GAGE
ELECTRICAL CONNECTION:	26 AWG, 4 CONDUCTOR SHIELD
	VITON CABLE, 3 ft [1 m] LONG

ENVIRONMENTAL :

OPERATING TEMPERATURE	-40 to 257°F [-40 to 125°C]
COMPENSATED TEMPERATURE	32 to 140°F [0 to 60°C]
OPTIONAL	-13 to 185°F [-25 to 85°C]
OPTIONAL	-13 to 257°F [-25 to 125°C]
SHOCK:	100 G'S 1/2 SINUSOIDAL - 1ms
VIBRATION:	± 0.02% of R.O./G (20-2000 Hz, 50G MAX)
TEMP. SHIFT ZERO	± 0.01% of LOAD/°F [0.02% of LOAD/°C]
TEMP. SHIFT SPAN	
EMI/RFI:	EN61000
ELECTRICAL PROTECTION	NOT PROTECTED AGAINST POLARITY INVERSION
ACCESSORIES DELIVERED W/ SENSOR	VITON O-RING

FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

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