# FUTEK MODEL PMP950 SERIES

# *MINIATURE HIGH PRESSURE SENSOR*

*(Previously P950 series)* CE *COMPLIANT*

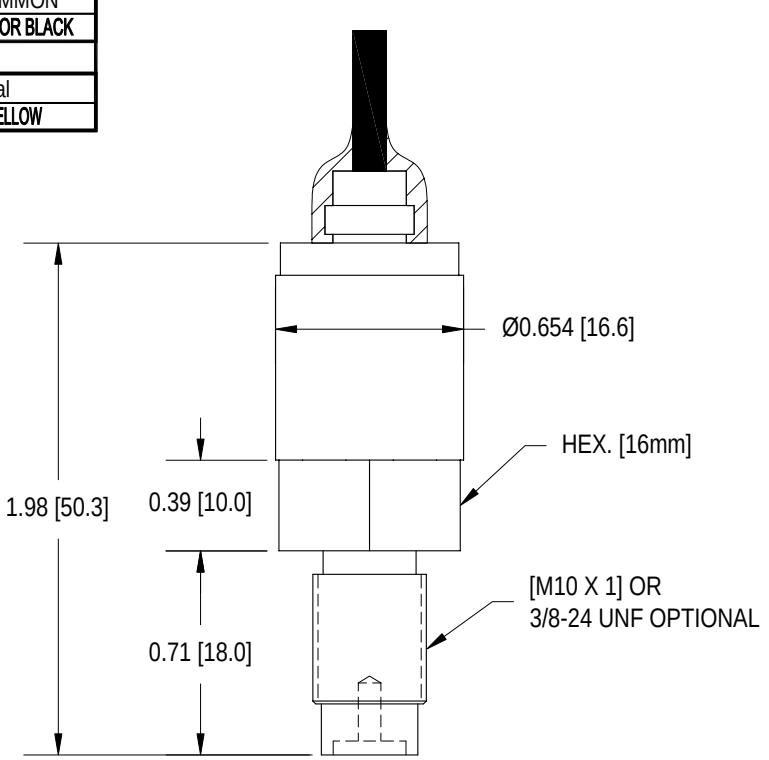
**Drawing Number: FI1165-A**

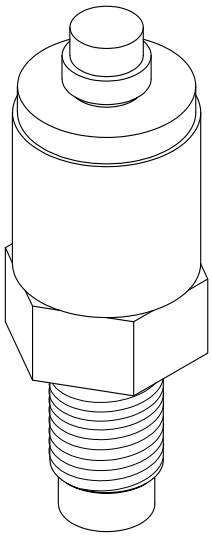
**INCH [mm] | R.O.= Rated Output**

| PMP953 WIRING CODE (WC5) | | |
|---|---|---|
| +Excitation | +Signal | COMMON |
| RED | GREEN OR YELLOW | BLUE OR BLACK |

| PMP955 WIRING CODE (WC6) | |
|---|---|
| +Excitation | +Signal |
| RED | GREEN OR YELLOW |

- · THIN FILM TECHNOLOGY
- · BATTERY SUPPLY
- · LARGE BANDWIDTH AVAILABLE (UP TO 20 KHz)
- · INCORPORATED 0-5V ELECTRONIC
- · AVAILABLE IN ABSOLUTE
- · MINIATURE FOR HIGH PRESSURE (36000 psi)



CABLE AND SHRINK NOT SHOWN

| SPECIFICATIONS | MODEL PMP953 | MODEL PMP955 |
|---|---|---|
| *RATED OUTPUT* | *4.5 VDC* | *20 mA* |
| *ZERO BALANCE* | *0.5 VDC ±0.05* | *4 mA ±0.1* |
| *EXCITATION* | *5 VDC ±0.05* | *12 to 27 VDC* |

## TECHNICAL SPECIFICATIONS:

(REFERENCE CONDITION:20°C)

CAPACITY: $\left(\frac{\text{PSI}}{\text{BAR}}\right)\left(\frac{14504}{1000}\right)\left(\frac{21756}{1500}\right)\left(\frac{29007}{2000}\right)\left(\frac{36259}{2500}\right)$

## PERFORMANCE:

| | |
|---|---|
| RATED OUTPUT: | SEE CHART |
| SAFE OVERLOAD: | 150% of R.O. |
| BURST PRESSURE: | 300% of R.O. MIN. |
| ZERO BALANCE: | SEE CHART |
| EXCITATION(VDC) | SEE CHART |
| COMBINED NONLIN. & HYSTERESIS | ±0.25% of R.O. MAX |
| NONREPEATABILITY | 0.05% of R.O. |
| LIFE, CYCLING | 10 MILLION CYCLES |
| RESPONSE TIME | 10 msec (1 to 100 ms available) |
| INSULATION RESISTANCE | 1000 Mohms @ 50Vcc |
| CALIBRATION | CERTIFICATE OF CONFORMANCE INCLUDED<br>NIST TRACEABLE 5 pt. CALIBRATION AVAILABLE |

## MECHANICAL SPECIFICATION:

| | |
|---|---|
| WEIGHT: | 30 g MAX |
| WETTED MATERIAL: | 17-4PH S.S. |
| BODY MATERIAL: | 316 S.S. |
| CAVITY VOLUME: | 100 mm $^3$ |
| ENCLOSURE PROTECTION: | NEMA 4 (IP 65) |
| ELECTRICAL CONNECTION: | 26 AWG, 4 CONDUCTOR, SHIELDED TEFLON CABLE, 3 ft [1 M] LONG |

## ENVIRONMENTAL :

| | |
|---|---|
| RESIDUAL NOISE | ±25 mVcc |
| OPERATING / COMPENSATED TEMPERATURE | -4 to 212°F [-20 to 100°C] / 68 to 176°F [20 to 80°C] |
| TEMPERATURE RANGE OPTION | -22 to 266°F [-30 to 130°C] / -13 to 257°F [-25 to 125°C] |
| SHOCK: | 100 G'S 1/2 SINEWAVE-1msec |
| TEMP. SHIFT ZERO<br>TEMP. SHIFT SPAN | ±0.015% of LOAD/°F [0.03% of LOAD/°C] MAX |
| EMI/RFI | COMPLIANT TO EN50081-1 & EN50082-2 |
| REVERSE POLARITY PROTECTION: | YES |

FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

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