

MF100 SERIES



MF100 SERIES

The diaphragm transmits pressure through the fluid filled capillary for high temperature stability. Four active arm wheatstone bridge strain gage ensures high accuracy. The rigid stem makes installation fast and easy.

MF200 SERIES



MF200 SERIES

SAME AS MF100 PLUS:

18" flexible capillary with stainless armor coating. This provides further thermal isolation and installation flexibility.

MFX SERIES



MFX SERIES

SAME AS MF200 PLUS:

Temperature sensor mounted behind diaphragm. This provides temperature and pressure measurement from a single hole. The temperature sensor is field replaceable without removing pressure sensor.

FEATURES MF100/200

- * MERCURY FREE FILL
- * Standard 3.33mV/V
- * 6pin Bayonet Connector
- * 6" Stem
- * 18" Flex Hose (MP200)
- * 0.5% combined error
- * 80% Output Calibration
- * Interchangeable with all Competitor's models
- * 660°F (350°C) Rating
- * Ranges from 0-500 to 0-20,000psi
- * Standard Diaphragm - INCONEL

OPTIONS MF100/200

- * OUTPUT OPTIONS
 - 2.5mV/V 4-20mA
 - 0-5VDC 0-10VDC
- * CONNECTOR OPTIONS
 - 8pin 6pin-CANNON
- * 12" STEM
- * 30" Flex Hose (MP200)
- * OPTIONAL DIAPHRAGMS
 - Hastelloy Titanium Nitride
 - Diamond-Particulate
- * 0.25% Accuracy

FEATURES MFX

- * same as MP200 Plus
- * Thermocouple J
 - Field replaceable

OPTIONS MFX

- * same as MF200 Plus
- * Temperature Sensors
 - Thermocouple K
 - Pt100 RTD sensor

SPECIFICATIONS

MECHANICAL

RANGES
0-500, 750, 1000, 1500, 3000, 5000, 7500, 10000, 15000, 20000psi

MAX ERROR
+/-0.5% Of Full Scale (Opt 0.25%)

REPEATABILITY
+/-0.2% Of Full Scale

OVERLOAD CAPABILITY
2x Full Scale or 30,000psi MAX

MOUNTING TORQUE
150 inch-lbsMIN 500 inch-lbsMAX

TEMPERATURE EFFECTS

MAXIMUM DIAPHRAGM TEMP
660°F (350°C)

ZERO SHIFT of DIAPHRAGM
15psi / 100°F

MAXIMUM HOUSING TEMP
250°F (120°C)

ZERO SHIFT of ELECTRONICS
1% / 100°F

ELECTRICAL

MEASURING SENSOR
Wheatstone Bridge
Strain Gauge

ELEMENT RESISTANCE
350ohm +/-1% Of Full Scale

INTERNAL SHUNT CALIBRATION
80% +/-0.5% Of Full Scale

ZERO BALANCE (Transducer)
+/-5% FULL SCALE

OUTPUT 3.33 mV/V or 2.5mV/V
EXCITATION 7-12VDC
RECOMMENDED - 10VDC

ZERO & SPAN ADJUSTMENT (Transmitter)
+/-15% FULL SCALE

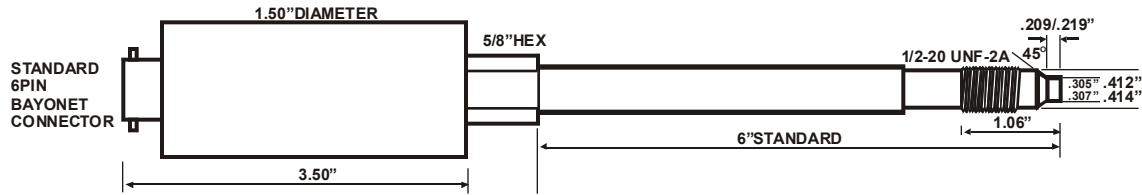
OUTPUT 4-20mA, 2 wire
EXCITATION 14-36VDC
LOAD RESISTANCE 0-1100ohm

OUTPUT 0-5VDC
EXCITATION 11-36VDC
LOAD RESISTANCE 2,000 MIN

OUTPUT 0-10VDC
EXCITATION 16-36VDC
LOAD RESISTANCE 2,000 MIN

MF100 - RIGID STEM

MELT PRESSURE

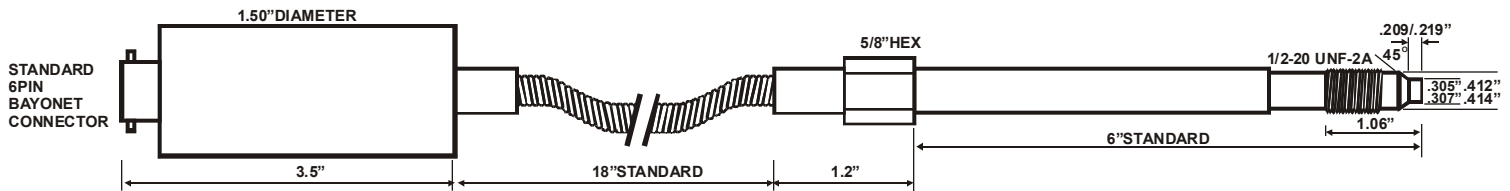


| ORDER CODE | | | | | | |
|------------|--------------|----------|---------------|------------------|---------------------------|--------------------|
| MF1 | X | X | P XX X | X | X | X |
| 0 - 6" | 1 - 3.33mV/V | 1.5 | M - Psi x1000 | S - 6PIN BAYONET | S - STANDARD INCONEL | - - ACCURACY 0.5% |
| 1 - 12" | 2 - 2.5mV/V | 3 | B - BAR x100 | 8 - 8PIN SCREW | D - DIAMOND PARTICULATE | A - ACCURACY 0.25% |
| | 4 - 4-20mA | 5 | P - Mpa | B - BC WIRING | T - TITANIUM NITRIDE | |
| | 5 - 0-5VDC | 7.5 | | G - 6PIN SCREW | I - INCONEL TIP & THREADS | |
| | 6 - 1-5VDC | 10 | | | H - HASTELLOY | |
| | 7 - 0-10VDC | 15 | | | | |
| | | 20 | | | | |

| STOCK LIST - MF100 | | |
|--------------------|-------------|---------|
| PART# | PRESS (psi) | OUTPUT |
| MF10x-P3MxS | 3,000 | Specify |
| MF10x-P5MxS | 5,000 | Specify |
| MF10x-P7.5MxS | 7,500 | Specify |
| MF10x-P10MxS | 10,000 | Specify |
| MF10x-P15MxS | 15,000 | Specify |

X - SPECIFY CONNECTOR & OUTPUT

MF200 - RIGID STEM + FLEX

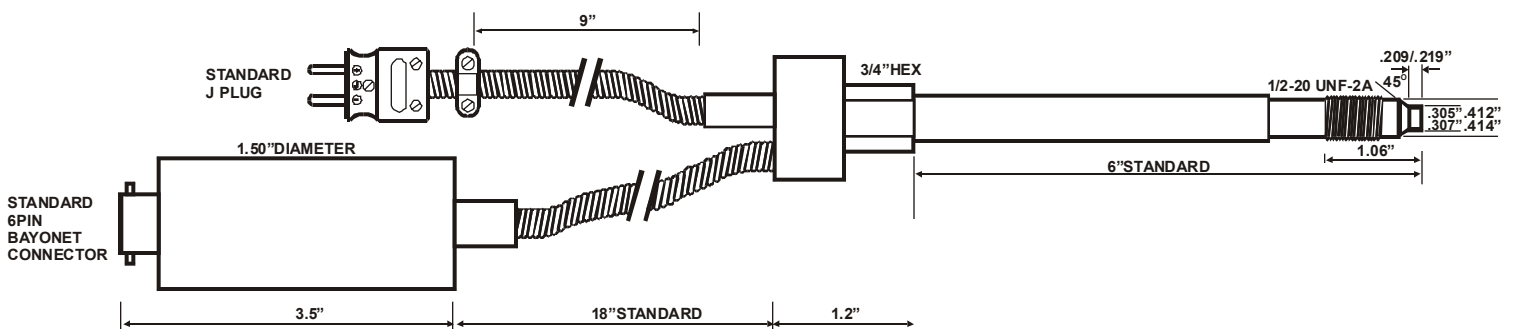


| ORDER CODE | | | | | | |
|------------------|--------------|----------|---------------|------------------|--------------------------|--------------------|
| MF2 | X | X | P XX X | X | X | X |
| 0 - 6"+18" FLEX | 1 - 3.33mV/V | 1.5 | M - Psi x1000 | S - 6PIN BAYONET | S - STANDARD INCONEL | - - ACCURACY 0.5% |
| 1 - 12"+18" FLEX | 2 - 2.5mV/V | 3 | B - BAR x100 | 8 - 8PIN SCREW | D - DIAMOND PARTICULATE | A - ACCURACY 0.25% |
| 3 - 6"+30" FLEX | 4 - 4-20mA | 5 | P - Mpa | B - BC WIRING | T - TITANIUM NITRIDE | |
| 4 - 12"+30" FLEX | 5 - 0-5VDC | 7.5 | | G - 6PIN SCREW | I - INCONEL TIP & THREAD | |
| | 6 - 1-5VDC | 10 | | | H - HAST | |
| | 7 - 0-10VDC | 15 | | | | |
| | | 20 | | | | |

| STOCK LIST - MF200 | | |
|--------------------|-------------|---------|
| PART# | PRESS (psi) | OUTPUT |
| MF20x-P3MxS | 3,000 | Specify |
| MF20x-P5MxS | 5,000 | Specify |
| MF20x-P7.5MxS | 7,500 | Specify |
| MF20x-P10MxS | 10,000 | Specify |
| MF20x-P15MxS | 15,000 | Specify |

X - SPECIFY CONNECTOR & OUTPUT

MFJ - PRESSURE + TEMPERATURE



| ORDER CODE | | | | | | |
|------------|------------------|--------------|---------------|---------------|------------------|---------------------------|
| MFJ | X | X | P XX X | X | X | X |
| J - T/C | 0 - 6"+18" FLEX | 1 - 3.33mV/V | 1.5 | M - Psi x1000 | S - 6PIN BAYONET | S - STANDARD INCONEL |
| K - T/C | 1 - 12"+18" FLEX | 2 - 2.5mV/V | 3 | B - BAR x100 | 8 - 8PIN SCREW | D - DIAMOND PARTICULATE |
| P - Pt100 | 3 - 6"+30" FLEX | 4 - 4-20mA | 5 | P - Mpa | B - BC WIRING | T - TITANIUM NITRIDE |
| | 4 - 12"+30" FLEX | 5 - 0-5VDC | 7.5 | | G - 6PIN SCREW | I - INCONEL TIP & THREADS |
| | | 6 - 1-5VDC | 10 | | | H - HASTELLOY |
| | | 7 - 0-10VDC | 15 | | | |
| | | 20 | | | | |

| STOCK LIST - MFJ | | |
|------------------|-------------|---------|
| PART# | PRESS (psi) | OUTPUT |
| MFJ0x-P3MxS | 3,000 | Specify |
| MFJ0x-P5MxS | 5,000 | Specify |
| MFJ0x-P7.5MxS | 7,500 | Specify |
| MFJ0x-P10MxS | 10,000 | Specify |
| MFJ0x-P15MxS | 15,000 | Specify |

X - SPECIFY CONNECTOR & OUTPUT