

MELT PRESSURE TRANSDUCERS / TRANSMITTERS - Pushrod

MR100 SERIES



MR100 SERIES

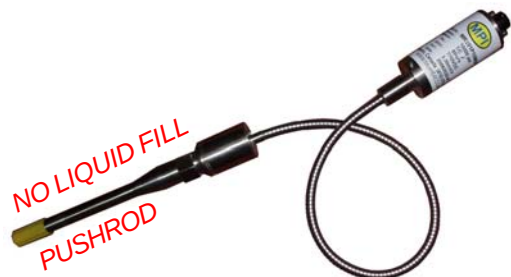
The diaphragm transmits pressure through the PUSHROD. The electronic temperature compensation circuit ensures high temperature stable pressure readings. Four active arm wheatstone bridge strain gage ensures high accuracy.

The rigid stem makes installation fast and easy.

FEATURES MR100/200

- * NO LIQUID FILL
- * Standard 3.33mV/V
- * 6pin Bayonet Connector
- * 6" Stem
- * 18" Flex Hose (MR200)
- * 1% combined error
- * 80% Output Calibration
- * Interchangeable with all Competitor's models
- * 1000°F (540°C) Rating
- * Ranges from 0-500 to 0-20,000psi
- * Standard Diaphragm - INCONEL

MR200 SERIES



MR200 SERIES

SAME AS MR100 plus:

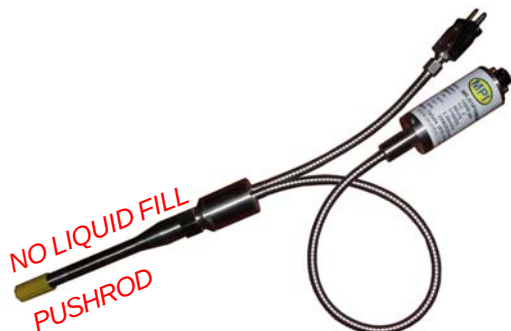
18" flexible capillary with stainless armour coating. This provides further thermal isolation and installation flexibility

The transition from rigid stem to flexible capillary must be maintained below 247°F (120°C).

OPTIONS MR100/200

- * OUTPUT OPTIONS
2.5mV/V 4-20mA
0-5VDC 0-10VDC
- * CONNECTOR OPTIONS
8pin 6pin-CANNON
- * 12" STEM
- * 30" Flex Hose (MR200)
- * OPTIONAL DIAPHRAGMS
Hastelloy

MRX SERIES



MRX SERIES

SAME AS MR200 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 MRX

- * same as MR200 Plus
- * Thermocouple J
Field replaceable

OPTIONS MRX

- * same as MR200 Plus
- * Temperature Sensors
Thermocouple K
Pt100 RTD sensor

SPECIFICATIONS

MECHANICAL

RANGES

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

MAX ERROR

+/-1% Of Full Scale

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

1000°F (540°C)

ZERO SHIFT OF DIAPHRAGM

5psi / 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

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

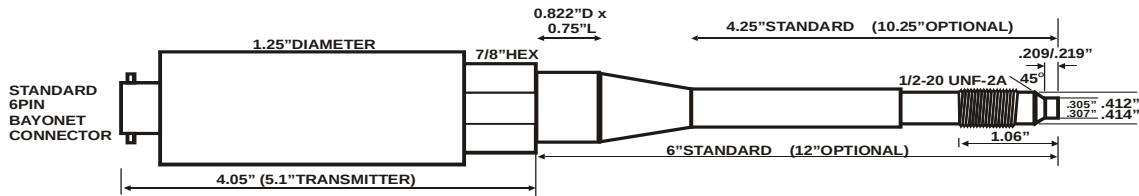
LOAD RESISTANCE 2,000 MIN

OUTPUT 0-10VDC

EXCITATION 16-36VDC

LOAD RESISTANCE 2,000 MIN

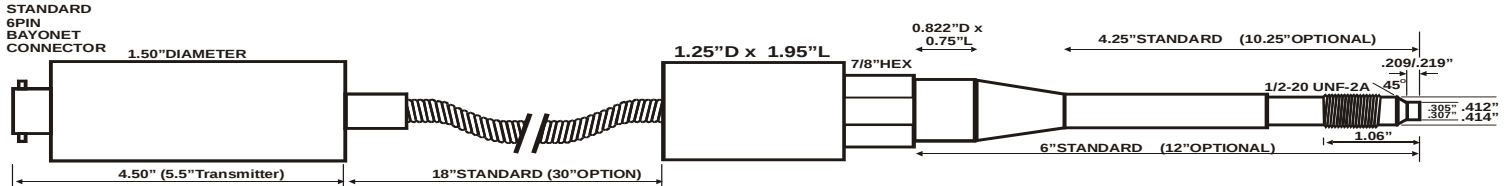
MR100 - RIGID STEM - Pushrod



ORDER CODE

MR1	X	P	XX	X	X	X
0 - 6"	1 - 3.33mV/V	1.5	M - Psi x1000	S - 6PIN BAYONET	S - STANDARD INCONEL	
1 - 12"	2 - 2.5mV/V	3	B - BAR x100	8 - 8PIN SCREW	C - CHROMIUM NITRIDE	
	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				

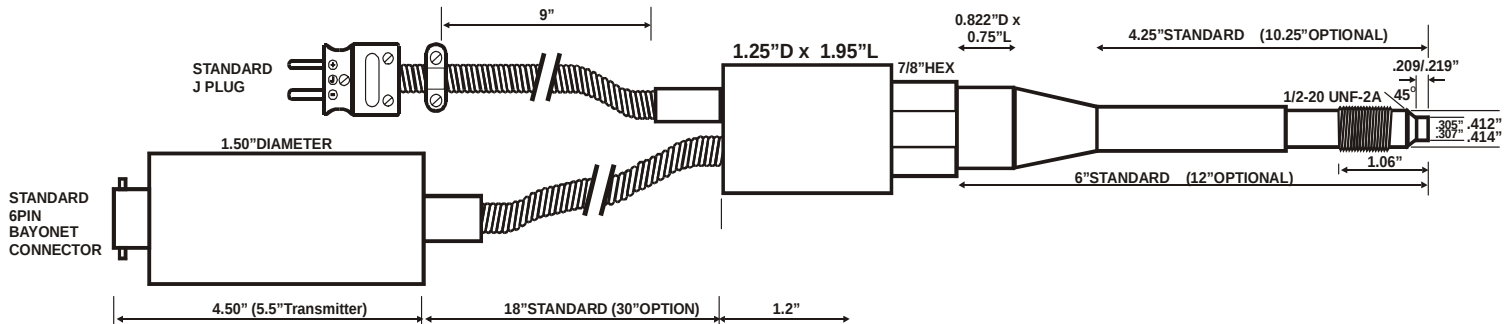
MR200 - RIGID STEM + FLEX - Pushrod



ORDER CODE

MR2	X	P	XX	X	X	X
0 - 6"+18" FLEX	1 - 3.33mV/V	1.5	M - Psi x1000	S - 6PIN BAYONET	S - STANDARD INCONEL	
1 - 12"+18" FLEX	2 - 2.5mV/V	3	B - BAR x100	8 - 8PIN SCREW	C - CHROMIUM NITRIDE	
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				

MRX - PRESSURE + TEMPERATURE - Pushrod



ORDER CODE

MRX	X	P	XX	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	C - CHROMIUM NITRIDE
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			