



Product Specification Sheet

MCD (Melt Contaminant Discharge) Melt Pressure Transducer / Transmitter For Polymer Filtration Screen Changers Model MCD



FEATURES

Fully welded Stainless Steel construction,
Interchangeable with existing systems,
Vibration Protection,
High-quality reliable electronics,
Reinforced diaphragm for increased cycles
100% Made in the U.S.A.

PRESSURE RANGES

From 0-500 to 0-30,000 PSI (see ordering guide)

INTERCHANGEABLE SENSOR FOR THE FOLLOWING SCREEN CHANGERS

Kreyenberg

Gneuss

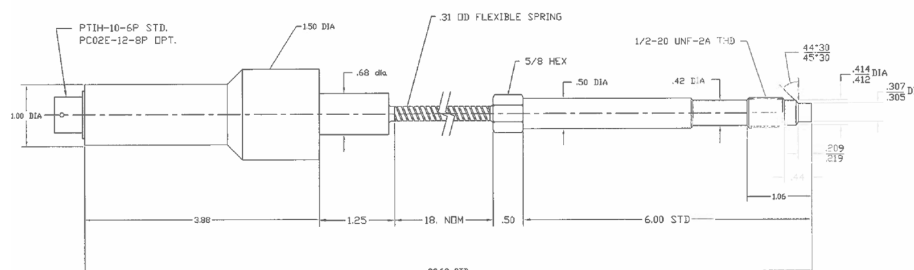
Xaloy

Maag

PSI—Polymer Systems

Parkinson

Model MCD, Rigid Stem with Flexible Capillary



GP:50 reserves the right to make product improvements and amendments to the product specification stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

Full Scale Pressure Ranges	See ordering guide	
Accuracy	±0.50% FSO	
Material in Contact with Pressure Media	Reinforced Inconel diaphragm with GPX coating	
Proof Pressure	2 times the full scale pressure range up to 35,000 PSI	
Temperature Limits	Diaphragm 750°F (400°C)	Strain Gauge Housing 176°F (80°C)
Temperature Effects from Diaphragm		
From Diaphragm	Zero—15 PSI / 100°F	
From Strain Gauge Housing	Zero / Span—Less than ±1.0% FSO / 100°F (±2.0% FSO / 100°C)	
Electricals	Excitation Voltage	Output at 70°F
(MCD1)	3.5—15 Vdc	3.33 mV/V ±2.0% FSO
(MCD2)	9—40 Vdc	10.0 Vdc ±2.0% FSO
(MCD3)	9—36 Vdc	4-20 mA ±2.0% FSO
Input Impedance		
(MCD1)	350 ohm, nominal	
Input Current		
(MCD2)	8 mA, nominal	
Output Current		
(MCD2)	2.0 mA maximum for less than 0.1% FSO attenuation	
Load Impedance		
(MCD3)	50,000 ohms minimum for less than 0.1% FSO attenuation, 1350 ohms maximum, at 36 Vdc	
Zero Balance		
(MCD1)	0.0 mV/V ±5.0% FSO at 70°F	
(MCD2)	0.0 Vdc ±5.0% FSO at 70°F	
(MCD3)	4.0 mA ±5.0% FSO at 70°F	
Range Calibration Signal	80% ±5.0% FSO standard 100, 200 series	
Connections	Pressure	Electrical
	1/2" - 20—UNF—2A	PTIH—10—6P, Standard 6-pin Connector
Enclosed Materials	316 Stainless Steel	
Mounting Torque	180-200 inch pounds, 500 inch pounds thread limitation	

Ordering Guide:

****MCDX: X = 1 (3.33 mV/V output), X = 2 (0-10 Vdc output), X = 3 (4-20 mA output)**

Mercury Fill	
Part Numbers	Description
MCDX-XX-GK1/MT/NK	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm 6" Rigid Stem, 39" Flexible Capillary
MCDX-XX-HD/GK1/MT/NK	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm, 3" Rigid Stem, 39" Flexible Capillary
MCDX-XX-GK1/MT/MU/NK	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm, 5.5" Rigid Stem, 39" Flexible Capillary
MCDX-XX-GK1/MT/MU/NK	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm, 3.35" Rigid Stem, 39" Flexible Capillary

Non-Mercury Fill	
Part Numbers	Description
MCDX-XX-GK1/MT/NK/QJ	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm, 6" Rigid Stem, 39" Flexible Capillary
MCDX-XX-HD/GK1/MT/NK/QJ	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm, 3" Rigid Stem, 39" Flexible Capillary
MCDX-XX-GK1/MU/NK/QJ	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm, 5.5" Rigid Stem, 39" Flexible Capillary
MCDX-XX-GK1/MT/MU/NK/QJ	0-XXXXX PSI / BAR, Reinforced Inconel Diaphragm, 3.35" Rigid Stem, 39" Flexible Capillary