MICRO CONTROL SYSTEMS

MCS-500-XP Description & Specifications



Description

The MCS-500-XP Explosion Proof pressure transducer is an economic and durable option for dealing with high-pressure industrial applications where an explosion proof transducer is required.

The high strength one-piece stainless steel construction contains no silicone oil, no welds, and no internal "O" rings, offers a full hermetic seal against corrosive media.

In addition to being CE and UL approved, the MCS-500-XP is capable of surviving high vibration. It includes a cavity built out of solid 316L stainless steel with1/4" SAE Female Flare fitting; 7/16-20 UNF pipe thread which creates a leak-proof, all metal sealed system that makes the MCS-500-XP ideal for use with rugged HVAC environments.

MCS-500-XP has an output voltage of 0.5 to 4.5vdc (ratio metric) and is also overvoltage-protected in both positive and reverse polarity, which adds an extra layer of safeguard against short-circuiting caused by unpredictable power surges.



-HExplosion proof Housing

Certification

Approved to CSA 30 (UL 1203) Class 1, Div. 1, Explosion proof, Groups A,B,C and D.

Specifications

Thermal Limits

Compensated Range........ 0 to 55°C (30 to 130°F)

TC Zero: <±1.5% of FS

TC Span: <±1.5% of FS

and IEC 68-2-32

EMI/RFI Protection Yes

Rating: IP-66 (factory sealed)

Performance @ 25°C (77°F)

Electrical

Length......2ft. 18 AWG wires
Type.....4-conductor, 18 awg stranded

Current Consumption: <10mA

Bandwidth.....(-3dB): DC to 1kHz

Output Noise: < 2mV RMS
Zero Offset: < ±1% of FS
Span Tolerance: <±1.5% of FS
Output Load: 10K Ohms, Min.

VDC to PSI Chart

VDC to PSI Cliait			
SI (VDC)	(PSI) 0-100	PSI) 0-500	(PSI) 0-667
0.5	0	0	0
0.7	5	25	33
0.9	10	50	67
1.1	15	75	100
1.3	20	100	133
1.5	25	125	167
1.7	30	150	200
1.9	35	175	233
2.1	40	200	267
2.3	45	225	300
2.5	50	250	333
2.7	55	275	367
2.9	60	300	400
3.1	65	325	433
3.3	70	350	467
3.5	75	375	500
3.7	80	400	533
3.9	85	425	567
4.1	90	450	600
4.3	95	475	633
4.5	100	500	667

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