MCS-667
Description & Specifications

RoHS Compliant

Part # **MCS-667-xx**

Description

The **MCS-667** pressure transducer is one of the most economic and durable options on the market for dealing with high-pressure industrial applications.

In addition to being CE and UL approved, the MCS-667 is capable of surviving high vibration. It includes a cavity built out of solid 17-4 PH stainless steel ¼" SAE Female Flare fitting & Schrader valve; 7/16-20 UNF pipe thread which creates a leak-proof, all metal sealed system that makes the MCS-667 ideal for use with rugged HVAC environments. The MCS-667 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.

Specifications

Pressure Range..... 0 to 667 psi (Gauge)
Housing ..... 17-4 ph Stainless Steel wetted
Environmental Protection .. IP66*
Operating Temperature..... -40ºF to 257ºF (-40ºC to 125ºC)
Accuracy ..... ± 1% -4ºF to 185ºF (-20ºC to 85ºC)
± 2.5% -40ºF to -4ºF (-40ºC to -20ºC)
± 2.5% 185ºF to 257ºF (85ºC to 125ºC)
Agency Approvals.....CE, UL 508
Proof Pressure..... 2 x Full Scale = 1334 psi
Burst Pressure..... 5 x Full Scale = 3335 psi
Random Vibration ..... 20 G @ 10-6670 Hz
Input Voltage..... 5vdc
Output Voltage..... 0.5 to 4.5vdc (ratio metric)
Connection ..... ¼" SAE Female Flare fitting & Schrader valve; 7/16-20 UNF thread

Option Cable:

Connector..... Packard with Neoprene seal
Length..... 20', 40' or 60' feet
Type..... 3-conductor, 20 awg stranded
Shield..... Foil shield with 25% overlap
Drain..... Stranded tinned copper drain

Part number description when ordering (MCS-667-xx)
xx..... 20' 40' or 60' wire length

The cable is available in either 20', 40 or 60' lengths with a removable Packard connector to provide easy serviceability. The wire is sealed and crimped to the Packard connector providing a liquid tight environment and strain relief. Media compatibility: Refrigerants (freons) and ammonia.

* IP66 Enclosure - IP rated as "dust tight" and protected against heavy seas or powerful jets of water.

PSI to VDC

PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)
0	0.50	100	1.10	200	1.70	300	2.30	400	2.90	500	3.50	600	4.10
10	0.56	110	1.16	210	1.76	310	2.36	410	2.96	510	3.56	610	4.16
20	0.62	120	1.22	220	1.82	320	2.42	420	3.02	520	3.62	620	4.22
30	0.68	130	1.28	230	1.88	330	2.48	430	3.08	530	3.68	630	4.28
40	0.74	140	1.34	240	1.94	340	2.54	440	3.14	540	3.74	640	4.34
50	0.80	150	1.40	250	2.00	350	2.60	450	3.20	550	3.80	650	4.40
60	0.86	160	1.46	260	2.06	360	2.66	460	3.26	560	3.86	660	4.46
70	0.92	170	1.52	270	2.12	370	2.72	470	3.32	570	3.92	667	4.50
80	0.98	180	1.58	280	2.18	380	2.78	480	3.38	580	3.98		
90	1.04	190	1.64	290	2.24	390	2.84	490	3.44	590	4.04		

Revision - 2016-08-15

5580 Enterprise Pkwy., Fort Myers, FL 33905
Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com