

MCS-667B-XX Description & Specifications



Part # MCS-667B-xx

Description

The **MCS-667B** pressure transducer is specially designed for use in high pressure HVAC/refrigeration applications, in the most demanding environments, where low cost is needed yet maintaining high accuracy, long term reliability, and long life.

Features include, high accuracy, wide temperature range, refrigerant media compatibility and rugged design for outdoor use.

The MCS-667B pressure transducer is CE, UL and RoHS compliant. It is capable of surviving high vibration. MCS-667B is a sealed gage pressure transducer with a cavity built out of stainless steel with a Neoprene sealing material, 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-667B ideal for use with rugged HVAC environments using refrigerant Media.

(For Refrigerant Applications)

Specifications

Pressure Range0 HousingSt	o 667 psi (sealed gauge) ainless Steel				
Sealing MaterialNe					
Electrical Connection IP					
Operating Temperature40°F to 257°F (-40°C to 125°C)					
Accuracy±2	2.0% -40°F to -4°F (-40°C to -20°C)				
± ′	.5% -4°F to 32°F (-20°C to 0°C)				
±´	.0% 32°F to 176°F (0°C to 80°C)				
±´	.5% 176°F to 248°F (80°C to 120°C)				
±2	2.0% 248°F to 257°F (120°C to 125°C)				
Agency Approvals Cl	E, UL E343906, RoHS				
Proof Pressurema					
Burst Pressure ma	ax 3000				
Random Vibration5					
Input Voltage5v	dc (± 0.25 Vdc)				
Input Current<1	0 ma (0.01 amps)				
Output Voltage0.	5 to 4.5 Vdc (ratio metric)				
Connection1/4'	SAE Female Flare fitting &				
Sc	hrader valve; 7/16-20 UNF thread				
Ontion Cable:					

Option Cable:

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

When ordering replace -xx with:

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.



*IP66 Rating

Able to protect against powerful water jets Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects. Water volume: 100 litres (26.42gals) per minute

Pressure: 100 kPa (14.50psi) at distance of 3 m (9.84ft)(1 meter) in depth.

PSI to 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	D	vision 201

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