



# MCS-667C-xxx\*

## Description & Specifications

### Specifications

Pressure Range.....0 to 667 psi (sealed gauge)  
Housing .....304L stainless steel  
Sealing Material.....Rugged seal ideal  
for outdoor environments  
Electrical Connection.....IP67  
Operating Temperature....-40°C to 125°C (-40°F to 257°F)  
Storage Temperature.....-40°C to 150°C (-40°F to 302°F)  
Accuracy.....± 1% F.S. typical over  
-25°C to 125°C (-13°F to 257°F)  
Agency Approvals.....UL873, ROHS compliant  
Proof Pressure.....1000 psi, 6.9 MPa  
Burst Pressure.....3600 psi, 24.8 MPa  
Vibration .....11 g (50 to 2000 Hz)  
Supply Voltage .....5.0Vdc +-0.5, max 10 mA  
Output Voltage .....0.5 VDC to 4.5 VDC typical  
Supply Current.....8 mA max @ 5 VDC with no load  
Output Current.....2.5 mA max sink or source  
Connection .....1/4" SAE Female Flare fitting &  
Schradler valve; 7/16-20 UNF thread

### \*Optional Cable:

MCS-667C Transducer is available with an optional molded cable as shown below, please specify the length needed:

**Replace -xxx with: 20M, 40M or 60M ft wire length**  
(available in longer lengths).



**NOTE: IF -XXX IS OMITTED, MCS-667C TRANSDUCER IS SHIPPED WITHOUT THE OPTIONAL CABLE.**

The cable has 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.



Connector .....3 position with Silicone seal  
Length.....20M, 40M or 60M feet  
Type.....3 conductor, 20 awg stranded  
Shield.....Foil shield with 25% overlap  
Drain.....Stranded tinned copper drain

### Packaging

Sensor (no cable)..... 0.12 lb - Box Dim. 6.75" x 4.25" x 2.25"  
Bag Dim. with Cable ..... 10" x 10" x 2"

with 20M ft cable 0.74 lb (approx)  
with 40M ft cable 1.40 lb (approx)  
with 60M ft cable 2.03 lb (approx)



Part # MCS-667C-xxx\*



### Description

The MCS-667C pressure transducer is specially designed for use in 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-667C pressure transducer is UL and RoHS compliant. It is capable of surviving high vibration. MCS-667C is a sealed gage pressure transducer with a cavity built out of stainless steel with a rugged sealing material for outdoor environments, 1/4" 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-667C ideal for use with rugged HVAC environments using refrigerant Media.

### 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		