

Product Specifications

Pressure Range 0 to 500 psi (Gauge)
 Accuracy..... $\pm 0.25\%$ of span
 Housing Stainless steel
 Operating Temperature -40°F to +221°F
 (-40°C to +105°C)
 Proof Pressure 2 x FS
 Burst Pressure..... 20 x FS
 Random Vibration 40 G p-p
 Input Voltage 5vdc
 Output Voltage 0.5 to 4.5vdc
 Connection 1/4" SAE female flare

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-500F-T-xx)
 xx 20' 40' or 60' wire length

Product Description

The MCS-500F-T-xx pressure transducer is a proven performer at a low cost. Its design is ideal for demanding HVAC and refrigeration applications where long-term reliability is a requirement. Internal components are packaged in a stainless steel housing with a 1/4" SAE female flare fitting.

The table below provides a cross reference between psi and vdc at a sensor input pin (SI) of the MCS micro controller.

PSI to VDC Chart

PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)	PSI	SI (vdc)
0	0.50	100	1.30	200	2.10	300	2.90	400	3.70
10	0.58	110	1.38	210	2.18	310	2.98	410	3.78
20	0.66	120	1.46	220	2.26	320	3.06	420	3.86
30	0.74	130	1.54	230	2.34	330	3.14	430	3.94
40	0.82	140	1.62	240	2.42	340	3.22	440	4.02
50	0.90	150	1.70	250	2.50	350	3.30	450	4.10
60	0.98	160	1.78	260	2.58	360	3.38	460	4.18
70	1.06	170	1.86	270	2.66	370	3.46	470	4.26
80	1.14	180	1.94	280	2.74	380	3.54	480	4.34
90	1.22	190	2.02	290	2.82	390	3.62	490	4.42



Part # MCS-500F-T-xx



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.