



MCS-500C

Description & Specifications



Part # **MCS-500C-xxx***

(-xxx = optional wire length for Molded Cable)



Specifications

- Pressure Range.....0 to 500 psi (sealed gage)
- Housing304L 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
- Vibration11 g (50 to 2000 Hz)
- Supply Voltage5.0Vdc +/-0.5, max 10 mA
- Output Voltage0.5 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
- Connection1/4" SAE Female Flare fitting with Schrader Depressor; 7/16-20 UNF thread

* Optional Cable:

MCS-500C Transducer is available with an optional molded cable as shown below, please specify the length needed:

Replace -xxx with: 20M, 40M or 60M
Length.....20 ft (6m), 40 ft (12m) or 60 ft (18m)
(available in longer lengths).

NOTE: IF -XXX IS OMITTED, MCS-500C TRANSDUCER IS SHIPPED WITHOUT THE OPTIONAL CABLE.

The cable has a removable 3 position 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 Silicone seal
- Length.....20M, 40M or 60M ft
- 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 20 ft (6m) cable 0.74 lb (approx)
 with 40 ft (12m) cable 1.40 lb (approx)
 with 60ft (18m) cable 2.03 lb (approx)

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
								500	4.50