

MCS-150A Description & Specifications





Part # MCS-150A-xx

(E **N**

Description

The **MCS-150A** 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-150A 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-150A ideal for use with rugged HVAC environments. The MCS-150A 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.

PSI to VDC Chart

PSIA	SI
	(vdc)
0	0.50
10	0.76
20	1.02
30	1.29
40	1.56

DO14	SI
PSIA	(vdc)
50	1.82
60	2.09
70	2.36
80	2.62
90	2.89

SI		
(vdc)		
3.16		
3.42		
3.69		
3.96		
4.23		
4.50		

Specifications

Pressure Range	0 to 150 psi (Absolute)
Housing	17-4 ph Stainless Steel wetted
Environmental Protection	IP66*
Operating Temperature	-40°F to 257°F (-40°C to 125°C)
Storage Temperature	-40°F to 257°F (-40°C to 125°C)
Accuracy	± 1% -4°F to 185°F (-20°C to 85°C)
•	± 2.5% -40°F to 68°F (-40°C to 20°C)
	± 2.5% 185°F to 257°F (85°C to 125°C)
Agency Approvals	CE, UL 508
Proof Pressure	3 x Full Scale = 450 psi
Burst Pressure	4 x Full Scale = 600 psi
Random Vibration	20 G @ 10-2000 Hz
Input Voltage	5vdc
Output Voltage	0.5 to 4.5vdc (ratio metric)
Connection	1/4" SAE Female Flare fitting &
	Schrader valve; 7/16-20 UNF thread
Ontion Cables	

Option Cable:

Option Gabic.	
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-150A-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.

*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.

Test duration: at least 3 minutes Water volume: 100 litres (26.42gals) per minute Pressure: 100 kPa (14.50psi) at distance of 3 m (9.84ft)

Revision-2016-08-15