

MCS-200B-W-xx Description & Specifications

(Recommend for WATER Applications)



Part # MCS-200B-W-xx

Description

The **MCS-200B-W** pressure transducer is specially designed for use in HVAC Chilled-water 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-200B-W pressure transducer is CE, UL and RoHs compliant. It is capable of surviving high vibration. MCS-200B-W is a sealed gage pressure transducer with a cavity built out of stainless steel with a BUNA-N sealing material (Excellent resistance to oils, solvents and fuels, 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-200B-W ideal for use with rugged HVAC environments using Chilled-waterMedia.

PSI	SI (vdc)	PSI	SI (vdc)		PSI	SI (vdc)
0	0.50	70	1.90		140	3.30
10	0.70	80	2.10	1	150	3.50
20	0.90	90	2.30		160	3.70
30	1.10	100	2.50		170	3.90
40	1.30	110	2.70		180	4.10
50	1.50	120	2.90		190	4.30
60	1.70	130	3.10		200	4.50

PSI to VDC Chart

Specifications

-	0 to 200 psi (sealed gauge)
Housing	
Sealing Material	
Electrical Connection	IP66*
Operating Temperature.	40°F to 257°F (-40°C to 125°C)
Accuracy	± 2.0% -40°F to -4°F (-40°C to -20°C)
	± 1.5% -4°F to 32°F (-20°C to 0°C)
	± 1.0% 32°F to 176°F (0°C to 80°C)
	± 1.5% 176°F to 248°F (80°C to 120°C)
	± 2.0% 248°F to 257°F (120°C to 125°C)
Agency Approvals	CE, UL E343906, RoHS
Proof Pressure	3 x Full Scale = 600 psi
Burst Pressure	5 x Full Scale = 1000 psi
Random Vibration	5 G @ 33Hz
Input Voltage	5vdc (± 0.25 Vdc)
Input Current	
	0.5 to 4.5 Vdc (ratio metric)
	1/4" SAE Female Flare fitting &
	Schrader valve; 7/16-20 UNF thread
Option Cable:	
Connector	Packard with Silicone seal
Length	
Turne	

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.

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)

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