

MCS PRESSURE TRANSDUCERS

What we recommend

Pressure sensors normally reside at two locations in refrigeration systems. The first point is on the output side of the evaporator, which is also the suction side of the compressor. The second is on the discharge side of the compressor. Some systems employ sensors in both locations. Smaller systems may use one or the other. In chillers, there are additional pressure sensors used to control the pumps that distribute chilled water. The most critical location is on the suction side of the compressor. That sensor stages fans and, in conjunction with a temperature sensor and system controller, controls the expansion valve in many systems.

A rubber O-ring seals the ceramic sensing element to a brass or steel housing on the pressure sensors. The O-ring material must be compatible with the application. The O-ring seal is especially important when high levels of contaminants are present in the water.

MCS-200B-W is recommended for Chilled WATER Applications



MCS-200B-W

MCS-200B-W is a sealed gage pressure transducer with a cavity built out of stainless steel and a **BUNA-N sealing material** (Excellent resistance to oils, solvents, fuels and water contaminants), 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-200B-W ideal for use in rugged HVAC environments using chilled water media.

Pressure range 0-200 psi (sealed gauge)
Operating Temperature range: -40°F to 257°F (-40°C to 125°C)
Electrical Connection IP66
Sealing Material (O-ring)..... BUNA-N (MCS-200B-W)

MCS recommends using the below pressure transducers for REFRIGERANT Applications



MCS-150AB



MCS-200B



MCS-500B



MCS-667B

The **MCS Pressure Transducers** are CE, UL and RoHS compliant. They are capable of surviving high vibration. The above MCS Pressure Transducers are sealed gage pressure transducers with a cavity built out of stainless steel with a **Neoprene sealing material**, 1/4" SAE Female Flare fitting & Schrader valve; 7/16-20 UNF pipe thread creates a leak-proof, all metal sealed system that makes these pressure transducers ideal for use in rugged HVAC environments using refrigerant media.

Pressure range 0-150 absolute, 0-200, 0-500 and 0-667 psi (sealed gauge)
Operating Temperature range: ... -40°F to 257°F (-40°C to 125°C)
Electrical Connection IP66
Sealing Material (O-ring) NEOPRENE (MCS-150AB, MCS-200B, MCS500B and MCS-667B)