



# MCS-TUBE & WELL

## Description & Specifications



	Tube Length	Overall Length
MCS-WELL-3/4	1.75"	4.75"
MCS-WELL-1/2	1.75"	4.75"
MCS-WELL-1/2-3	3.00"	6.00"
MCS-WELL-1/2-DB	1.81"	3.50"
MCS-WELL-1/4	1.8"	4.75"
MCS-WELL-1/4-3	3.00"	6.00"
MCS-TUBE	2.75"	2.75"

Part # **MCS-TUBE & MCS-WELL-X/X-XX**

### Description

#### MCS-TUBE

The **MCS-TUBE** can be epoxied to a discharge or suction line in order to obtain temperature readings without the use of a well. It was designed to be used with the MCS-T100 temperature sensor and comes pre-filled with heat conductive compound to aid in transferring temperature to the sensor.

After attaching the MCS-TUBE to a pipe and inserting the temperature sensor, the tube and sensor should then be wrapped with insulating material. The cable to the temperature sensor should then be brought back over the outside of the insulating material and tie wrapped to act as a strain relief. This also provides protection from ambient or outside influences on the temperature reading.

### Specifications

#### MATERIAL

MCS-TUBE ..... Deep drawn copper tube  
 MCS-WELL ..... Machined from brass  
 MCS-WELL ..... Pre-filled with heat transfer Compound (MS1699)  
 MCS-TUBE ..... Pre-filled with heat transfer compound (MS1699)  
 Cable Strain Relief..... Some units as shown

#### DIMENSIONS

MCS-TUBE  
 Length ..... 2.75"  
 Diameter ..... 0.425" OD / 0.355" ID  
 MCS-WELL-1/4 (1/4" NPT male threads)  
 Length ..... 4.75" for WELL-1/4  
 6.00" for WELL-1/4-3  
 Diameter ..... 0.400" OD / 0.300" ID  
 MCS-WELL-1/2 (1/2" NPT male threads)  
 Length ..... 4.75" for WELL-1/2  
 6.00" for WELL-1/2-3  
 Diameter ..... 0.400" OD / 0.300" ID  
 MCS-WELL-1/2-DB (1/2" NPT male threads)  
 Length ..... 3.50"  
 Diameter ..... 0.400" OD / 0.300" ID  
 MCS-WELL-3/4 (3/4" NPT male threads)  
 Length ..... 4.75"  
 Diameter ..... 0.400" OD / 0.300" ID  
 Cable Strain Relief  
 Min Cable Diameter ..... 0.064" (1.6mm)  
 Max Cable Diameter..... 0.210" (5.3mm)

**MAXIMUM PRESSURE ..... Tested to 400 psi**

#### PACKAGING

Poly Bag - 4" x 6" x 4 mill

#### MCS-WELL

The **MCS-WELL** is available in three sizes (1/4", 1/2" and 3/4" NPT). Extended depth tube length (3") is available for the 1/4" and 1/2" wells.

The MCS-Well was designed to be used with the MCS-T100 temperature sensor, although it has other applications. It comes pre-filled with heat conductive compound to aid in transferring temperature to the sensor. The MCS-T100 sensor has the ability to move from 32°F to 212°F in approximately 10 to 15 seconds. When utilizing this well with our temperature sensor, the reaction time of the MCS-T100 is not adversely affected. To install, insert wire fully into MCS-WELL until it hits the end of the well, then tighten down strain relief until secure.

The MCS-WELL-1/2 is also available in a package that offers 1/2" NPT male threads on both sides of the fitting to allow connection to pipe or conduit. To order this part, please specify MCS-WELL-1/2-DB.

Revision 2021-02-11