



## The MCS-TUBE & WELL Specifications & Description

### Physical Characteristics

Material	
MCS-TUBE .....	Deep drawn copper tube
MCS-WELL .....	Machined from brass
Tube & Well Filling .....	
	Pre-filled with heat conductive compound
Tube Dimensions	
MCS-TUBE	
Length .....	2.75"
Diameter.....	0.425" OD / 0.355" ID
MCS-WELL-1/4	
Length .....	2.50"
Diameter.....	0.400" OD / 0.300" ID
MCS-WELL-1/2	
Length .....	2.75"
Diameter.....	0.400" OD / 0.300" ID
MCS-WELL-1/2-XP	
Length .....	3.50"
Diameter.....	0.400" OD / 0.300" ID
MCS-WELL-3/4	
Length .....	2.75"
Diameter.....	0.400" OD / 0.300" ID
Well Fittings	
MCS-WELL-1/4.....	1/4" NPT male threads
MCS-WELL-1/2 & XP.....	1/2" NPT male threads
MCS-WELL-3/4 .....	3/4" NPT male threads

Maximum Pressure ..... Tested to 400 psi

### Product Description

#### MCS-TUBE

The MCS-TUBE can be soldered, braised or 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 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.



**MCS-TUBE & WELL**

#### MCS-WELL

The MCS-WELL is available in three sizes (1/4", 1/2" and 3/4" NPT) The preferred fitting, based on reducing the mass to improve temperature transfer, is 1/2" NPT.

The well was designed to be used with the MCS-T100 temperature sensor, although it has other applications. The MCS-T100 sensor has the ability to move from 32° F to 212° F in approximately 10 to 15 seconds. When utilizing this temperature sensor in certain wells which have a large mass, the reaction time of the sensor will be slower.

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-XP**