

Description

A conductivity system is only as good as the sensor or cell which provides the signal to the analyzer or controller. AquaMetrix, with decades of experience in the measurement of conductivity, manufactures a wide variety of conductivity cells to satisfy any industrial, power plant or laboratory application. In addition to the standard line, all types are available for high temperature applications.

MS cells feature electrodes made from specially impregnated graphite. This technology, insures that, with reasonable maintenance, years of drift-free performance can be expected.

Ten cell constants from 0.01 to 50 are available. All types are designed with a safety stop shoulder on the cell.

Integral automatic temperature compensation is standard on all types and provides compensation to 100°C when used with a compatible analyzer. Carefully selected thermistors are located in such a way as to give close thermal contact with the liquid being measured to assure fast response to changing temperature.

Flow-through mounting incorporates a special compression fitting which allows adjustable insertion length in 3/4 inch NPT piping or in the side of a tank. This design avoids the nuisance of disconnecting the cell cable when installing or removing the cell for cleaning.

Submersion mounting is achieved by reversing the direction of the compression fitting, allowing the cell to be threaded into the MHMSC mounting hardware. Mounting hardware is available which includes a 2 foot length of CPVC pipe and a simple but versatile adjustable bracket for hanging on the rim of the tank.

Ball Valve (“Hot-Tap”) types permit removal of the cell from process piping or from tanks without shutting down the system. They are available with in CPVC.

In addition to the cells described here, special applications such as food grade cells for the beverage industry are available.

Ask for assistance in selecting the cell and instrument to suit your particular application.

Features

- Impregnated Graphite Electrodes
- Economically Priced
- Automatic Temperature Compensation
- Adjustable Insertion Length
- Ball Valve “Hot Tap” Types
- Constants from 0.01 to 50
- High Temperature Version

Applications

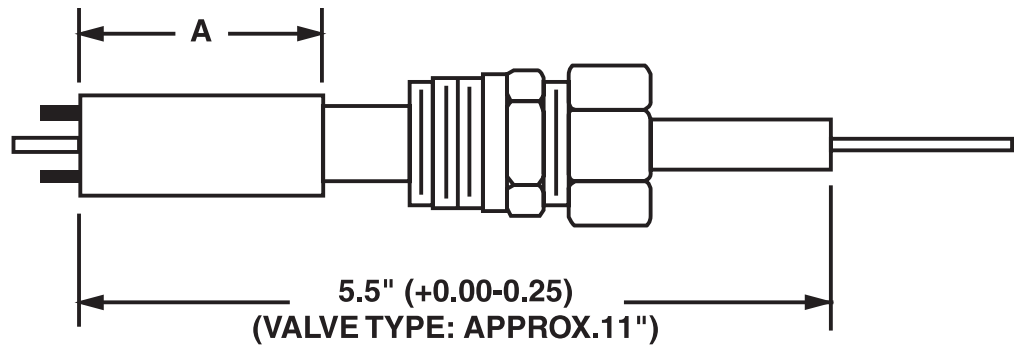
- Boilers
- Cooling towers
- High purity water applications
- Pharmaceutical Applications
- Reverse osmosis systems
- Food and Beverage

Model MS Conductivity Cells

Technical Data

Cell Constants	0.01 to 50			
Thread size	3/4" NPT	Temperature and Pressure		
Temperature Compensation	Automatic, 0 to 100°C	Type	Max pres. (psi)	Max temp. (°C)
Cable Length	20 ft. (6.1 m)	P	50	50
Insertion Length	Variable. See table below		100	35
Wetted Materials	Graphite, epoxy and EPDM plus CPVC or 316 stainless steel		150	20
Ball Valve Types	Model S-HTC, 3/4" socket weld CPVC	S	100	100
Safety Feature	Shoulder on cells provides an integral safety stop			
Temperature and Pressure	3 metres (10 ft.) coaxial, terminated with a spade lug for active electrode, other wires tinned			

Dimensions



Related Products

- MHMSC, 24 inch (610 mm) long 1" CPVC pipe w/ cable clamp
- MS-HTC, 3/4" socket-weld CPVC ball valve assembly

Ordering Information

Cell Constant Selection				Temperature Compensation Device Selection	
Constant	Code	Constant	Code	Description	Code
0.01	001	1	1	PT1000 RTD	1
0.05	005	10	10	3000 ohm NTC	2
0.1	01	20	20		
0.5	05	50	50		

Type Selection	
Description	Code
Cell with PVC fitting	P
Cell with 316 stainless steel fitting	S
Cell for Ball Valve Assembly	HT