

Model ASM
316SS electrodes

Model ASG
Graphite electrodes



Description

For years the MS series of epoxy body probes have been known as the most extensive conductivity probes on the market. The new AS series represent a major upgrade.

The AS conductivity probes feature a choice of 316 stainless steel (Model ASM) or graphite (Model ASG) electrodes and CPVC shells that will satisfy just about any industrial, power plant or laboratory application. This technology insures that, with reasonable maintenance, years of drift-free performance can be expected.

Five cell constants from 0.01 to 50 are available to cover any water sample between pure water and saline conditions. All types are designed with a safety stop shoulder on the cell.

Integral automatic temperature compensation PT1000RTD is standard on all types and provides compensation to 25°C when used with a compatible analyzer. Users can also choose between a PT100RTD, 300 NTC or 3k NTC therm-

istor option. Either element is placed 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 AM-ARM-AS mounting hardware. Mounting hardware is available which includes a 4 foot length of CPVC pipe and a simple but versatile adjustable bracket for hanging on the rim of the tank.

AM-HTC-AS hot tap ball valve mounting assembly with longer body sensor (HT version) permit removal of the cell from process piping or from tanks without shutting down the system.

Features

- CPVC shell
- 316 SS or Graphite Electrodes
- PT1000RTD Automatic Temperature Compensation Device
- Adjustable Insertion Length
- AM-HTC-AS Ball Valve "Hot Tap" Hardware Available
- Five Cell Constants to choose from: 0.01, 0.1, 1, 10 and 50
- Choice of four temperature devices for automatic compensation

Applications

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

AS-series Conductivity Sensors

Technical Data

Measuring Range

(Depends on controller)
For AM-2250:

k=001	k=01	k=1	k=10	k=50
0.2-10 $\mu\text{S/cm}$	10-500 $\mu\text{S/cm}$	100-5000 $\mu\text{S/cm}$	5-250 mS/cm	10-500 mS/cm

Wetted Materials

CPVC, epoxy, EPDM, 316 Stainless Steel (for "ASM" sensors and/or "S" option for compression fitting)
Optional: Graphite for ASG

Insertion type

Variable insertion length, 3/4" NPT fitting

Temperature Limits

23 to 176°F (-5 to 80°C) at atmospheric pressure

Maximum Pressure

100 psig at 150°F (65°C)

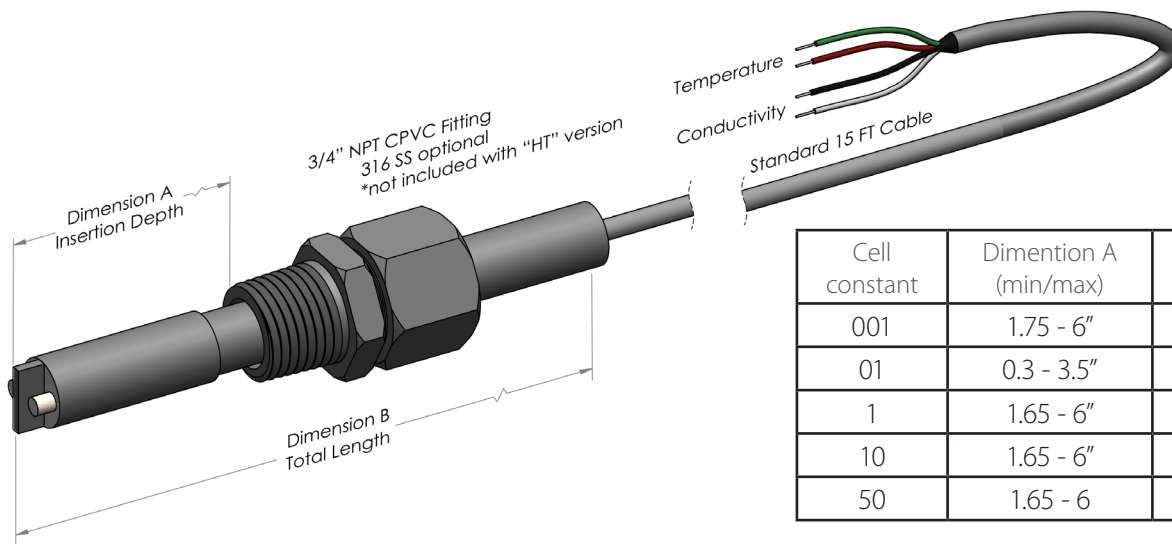
Temperature Compensation

Standard PT1000 Ω RTD. Other ATC devices available: 300NTC, PT100RTD, 3000NTC

Sensor Cable

4-conductor, unshielded, 15 ft (4.5m) standard. Up to 50ft custom cable available

Dimensions



Cell constant	Dimension A (min/max)	Dimension B (regular/Hot-Tap)
001	1.75 - 6"	7.25" / 11.9"
01	0.3 - 3.5"	5.8" / 10.5"
1	1.65 - 6"	5.8" / 10.5"
10	1.65 - 6"	7.35" / 12"
50	1.65 - 6"	7.35" / 12"

Related Products

ANALYZERS

AM-2250	Multi-Parameter Controller
AM-2250TX	Multi-Parameter Transmitter

ACCESORIES

AM-JB1	NEMA 4X junction box
AM-HTC-AS	Ball Valve assembly for Hot-Tap insertion
AM-ARM-AS	Submersion mounting kit

CALIBRATION SOLUTIONS

AM-C010U-1P	10 $\mu\text{S/cm}$, 1 pint (500 mL)
AM-C100U-1P	100 $\mu\text{S/cm}$, 1 pint (500 mL)
AM-C001M-1P	1 mS/cm , 1 pint (500 mL)

STAINLESS STEEL SENSORS

AM-series	Stainless steel contacting sensors
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Ordering Information

ASM1P1-015	Contacting CPVC conductivity sensor with stainless steel electrodes, cell constant k=1 for flow-through or submersion application. PT1000RTD temperature compensation device and 15 ft cable
ASM01P1-015	Contacting CPVC conductivity sensor with stainless steel electrodes, cell constant k=0.1 for flow-through or submersion application. PT1000RTD temperature compensation device and 15 ft cable
ASG10P1-015	Contacting CPVC conductivity sensor with graphite electrodes, cell constant k=10 for flow-through or submersion application. PT1000RTD temperature compensation device and 15 ft cable
ASM1HT1-015	Contacting CPVC conductivity sensor with cell constant k=1 for use in hot tap application. PT1000RTD temperature compensation device and 15 ft cable