AquaMetrix AS-series Conductivity Sensors

Model ASM
316SS electrodes

Model ASG
Graphite electrodes

Features

- CPVC shell
- 316SS or Graphite Electrodes
- Pt1000RTD Automatic Temperature Compensation Device
- Adjustable Insertion Length
- Five Cell Constants to choose from: 0.01, 0.1, 1, and 10
- Choice of temperature devices for automatic compensation

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 10 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 NTC3k thermistor option. Temperature 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.

A smart version of the sensor encapsulates a blind 4-20 mA two wire transmitter which can transmit a virtually unlimited distance over a twisted pair cable. (See AS-TX data sheet)

Applications

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

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N110-111 R9

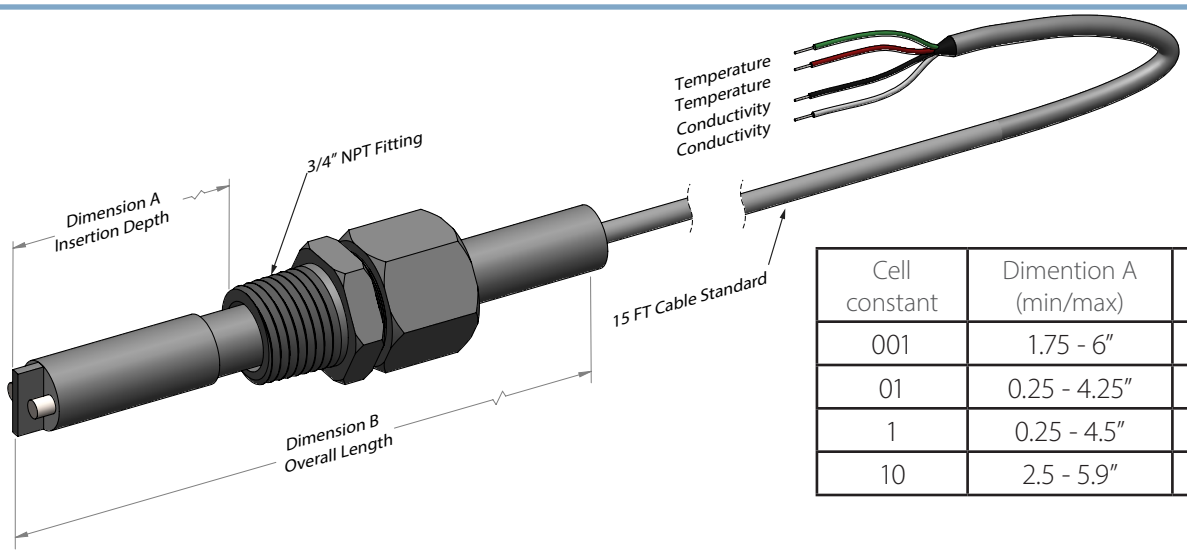
AS-series Conductivity Sensors

Technical Data

Measuring Range For 2250-series controllers:	k=001 0.2-10 µS/cm	k=01 10-500µS/cm	k=1 100-5,000 µS/cm	k=10 1-50mS/cm

Wetted Materials	CPVC, epoxy, EPDM, Optional: 316 Stainless Steel (for ASM1 and ASM01 sensors and/ or stainless steel option for compression fitting) Graphite for ASG10, PVC when cable is exposed.
Insertion type	Variable insertion length, 3/4" NPT fitting
Temperature Limits	23 to 167°F (-5 to 75°C) at amospheric pressure
Maximum Pressure	**CPVC fitting:** 50 psi at 77ºF (25ºC) **316SS fitting:** 100 psig at 150°F (65.5°C)
Temperature Compensation	Standard Pt1000Ω RTD.
Cable	4-conductor, 15 ft (4.5m) standard. Up to 50ft custom cable available

Dimensions



Cell constant	Dimention A (min/max)	Dimention B
001	1.75 - 6"	7.25"
01	0.25 - 4.25"	5.5"
1	0.25 - 4.5"	5.78"
10	2.5 - 5.9"	7.13"

Related Products

ANALYZERS

AM-2252	Dual Input Multi-Parameter Controller
AM-2250	Single Input Multi-Parameter Controller
AM-2250TX	Multi-Parameter Transmitter

ACCESORIES

AM-JB2	NEMA 4X junction box
AM-ARM-AS	Submersion mounting kit
AM-SFL-AS	1-1/2" Sanitary flange for AS sensor
AM-TEE-AS	1" Union Tee with 3/4" adapter
AM-CCF-AS	CPVC 3/4" compression fitting
AM-SCF-AS	316SS 3/4" compression fitting
AM-CBL	Universal extension cable

Ordering Information

ASM1P1-015	Contacting CPVC conductivity sensor with stainless stell 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 stell 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