



### 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 thermistor option. Either element is place 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-HTG-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.

# AquaMetrix AS-series Conductivity Sensors

Model ASM 316SS electrodes Model ASG Graphite electrodes

### 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





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# **AS-series Conductivity Sensors**

#### **Technical Data**

Measuring Range					
(Depends on controller)	k=001	k=01	k=1	k=10	k=50
For AM-2250:	0.2-10 µS/cm	10-500µS/cm	100-5000 µS/cm	5-250mS/cm	10-500mS/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 amospheric pressure				
Maximum Pressure	100 psig at 150°F (65°C)				
Temperature Compensation	Standard PT1000 $\Omega$ 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					



### **Related Products**

### Ordering Information

ANALYZERS		∆SM1P1_015	Contacting CPVC conductivity sensor with stainless stell electrodes, cell con- stant k=1 for flow-through or submer- sion application. PT1000RTD temperature compensation device and 15 ft cable		
AM-2250	AM-2250 Multi-Parameter Controller				
AM-2250TX Multi-Parameter Transmitter ACCESORIES					
AM-JB1	NEMA 4X junction box	ASM01P1-015	Contacting CPVC conductivity sensor		
AM-HTC-ASBall Valve assembly for Hot-Tap insertionAM-ARM-ASSubmersion mounting kit			with stainless stell electrodes, cell con- stant k=0.1 for flow-through or submer-		
AM-SFL-AS	1-1/2" Sanitary flange for AS sensor		compensation device and 15 ft cable		
AM-TEE-AS	1" Union Tee with 3/4" adapter		Contacting CPVC conductivity sensor		
AM-CCF-AS CPVC 3/4" compression fitting		ASGI0PI-015	with graphite electrodes, cell constant k=10 for flow-through or submersion ap- plication. PT1000RTD temperature com-		
AM-SCF-AS 316SS 3/4" compression fitting					
CALIBRATION SOLUTIONS					
AM-C010U-1P	10μS/cm, 1 pint (500 mL)	ASM1HT1-015	Contacting CPVC conductivity sen- sor with cell constant k=1 for use in hot tap application. PT1000RTD temperature		
AM-C100U-1P	100µS/cm, 1 pint (500 mL)				
AM-C001M-1P	1mS/cm, 1 pint (500 mL)				
STAINLESS STEEL	_ SENSORS		compensation device and 15 ft cable		
AM-series	Stainless steel contacting sensors				

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