AM-ES1 Wide Range Toroidal
Toroidal Conductivity Sensor

Features

- Industrial-grade quality
- Wide measuring range
- Low maintenance
- No Electrode corrosion
- Automatic temperature compensation

Description

The AquaMetrix ES series electrodeless conductivity sensors are used in processes where conventional contacting sensors may become fouled or corroded.

Each sensor comes standard with a PT1000 RTD temperature device, which provides automatic temperature compensation to 25°C (77°F).

The AquaMetrix ES sensors can be mounted in flow through applications or submersion mounted in tanks or open vessels.

The terms electrodeless and toroidal are interchangeable in regards to this type of conductivity sensor.

Toroidal conductivity sensors are made up of two-wire wound toroids encapsulated in a potting compound and encased in a plastic body. One toroid acts as a transmitter and the other as a receiver. An electric current is induced between the toroids through the process solution. This current is directly proportional to the conductivity of the process solution.

Toroidal conductdivity sensors typically measure conductivity values greater than 100 µS/cm. However, when paired with the new AM-2251, one ES-1 can measure levels as low as 4 µS/cm and as high as 400 µS/cm.

Applications

- Plating
- High purity water
- Pharmaceutical applications
- Reverse Osmosis systems
- Fume Scrubbers
- Boilers
- Cooling Towers
- Textile Manuafacturing
- Food and Beverage

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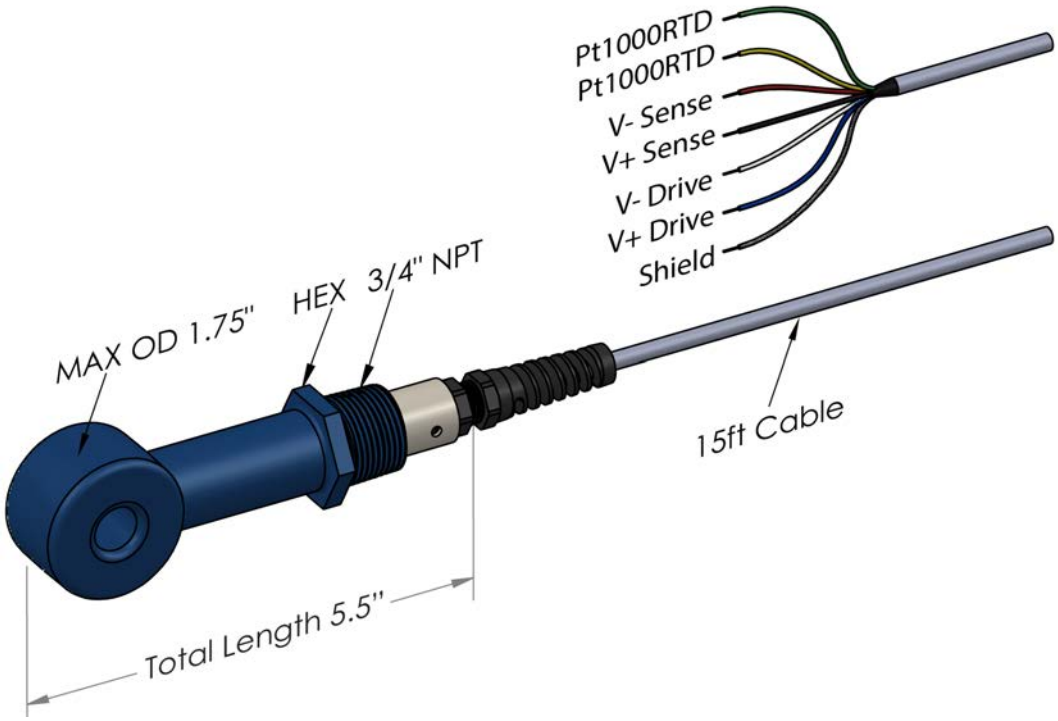
Model AM-ES1 Wide Range Toroidal

Technical Data

Measuring Range	4 to 400,000 uS/cm @ 25°C	Resolution	0.1 uS/cm
Wetted Materials	Polypropolene	Accuracy	Greater than 1% after calibration
Temperature Limits	-20 to 120°C (-5 to 80°C) at amospheric pressure		
Maximum Pressure	100 psig at 150°F (65°C)	Automatic Temperature Compensation	Standard PT1000Ω RTD
Maximum Flow Rate	10 ft. (3 meters) per second without turbulence	Sensor Cable	Default length 15 ft (4.5m)

Dimensions



Related Products

ANALYZERS

AM-2251	Multi-Parameter Controller

ACCESORIES

AM-JB1	NEMA 4X junction box
AM-TEE-ES	2" CPVC Union Tee
AM-CBL60	Extension cable