

AquaMetrix Model AS-TXDirect Output Conductivity Probe



Description

AquaMetrix conductivity sensors have earned a reputation for over four decades of being field proven in some of the most hostile and mission-critical applications. Our three lines of sensors cover every conceivable environment from ultra-pure water to wastewater.

Now our most popular conductivity sensor line, the AS series, is available in a direct, 4-20 mA version. The AS-TX line encloses the working circuitry of the 2250 TX transmitter into a package small enough to fit into a 1" CPVC body.

The AS-TX retains the programmability of the 2250 TX so that you can program into the probe the cell constant, tempreature compensation, calibration and 4-20 mA output.

Each sensor is individually factory calibrated so there is no porgramming required. You can expect accurate readings right out of the box.

Five cell constants from 0.01 to 50 are available to cover any water sample. Integral automatic temperature compensation Pt1000 Ω RTD is standard on all types and provides compensation to 25 °C. The temperature element is in close thermal contact with the

liquid being measured to ensure fast response to changing temperature.

Flow-through mounting incorporates a special compression fitting which allows adjustable insertion length in 1.5-inch NPT fitting 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 via the AM-ARM-5 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 hot tap ball valve mounting assembly permits removal of the cell from process piping or from tanks without shutting down the system.

Those who already have an AS series probe can purchase the blind transmitter in a separate NEMA 4X package.

The AS-TX is just one of many 4-20 mA output sensors that work with the AM-2300 web-enabled controller or virtually any PLC.

Features

- Integral 4-20mA transmitter can be fed directly to a PLC
- Configurable through RS-485. Modbus coming.
- Five Cell Constants: 0.01, 0.1, 1, 10 and 50
- Electrodes: 316 SS (0.1 and 1) or Graphite (0.01, 10 and 50)
- Pt $1000\,\Omega$ RTD for automatic temperature compensation
- Factory calibrated conductivity, temperature and 4-20 mA output.
- Separate transmitter available to convert existing AS probes to direct output.

Applications

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

Aqua Metrix

by INP Water Analytics

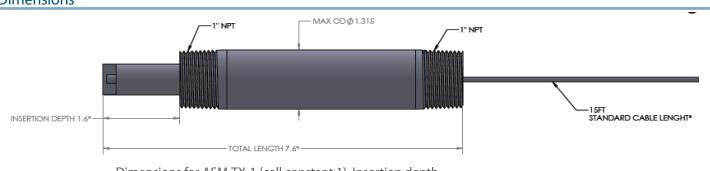
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AquaMetrix AS-TX 4-20mA Conductivity Sensor

Technical Data

Cell Constant	Choice of 0.01, 0.1, 1, 10 and 50	Temperature Compensation	Default 2% /°C. Adjustable from 0 to 10% /°C
Wetted Materials	CPVC and 316 SS (0.1 and 1)		
	CPVC and Graphite (0.01, 10 and 50)	Factory Calibration	Conductivity, Temperature,
Resistance Range	100 - 5000 Ω		4-20 mA output
Temperature Element	Pt 1000 Ω RTD.	Accuracy	Conductivity: ±5% or better Temperature: ± 1°C
Temperature Range	-20 to 90°C (-4 to 195°F)	C. Lilli	•
Maximum Pressure	200 psig non-shock at 25°C	Stability	Conductivity: ±1% Temperature: ±0.1°C
Power Input	16-32 VDC (loop powered)	Cable	4 Conductor (2 analog, 2 digital). Default length 4.6 m (15 ft)
Analog Output	4-20 mA loop powered	casic	
Digital Output	RS 485 (Modbus RTU coming)	Transmission Distance	Nominally 650 m (2000 ft)
		Certification	TUV pending, CE

Dimensions



Dimensions for ASM-TX-1 (cell constant 1). Insertion depth and total length different for other cell constants.

Related Products	Ordering Information
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ANALYZERS AM-2300 Web-enabled, multi-input controller		ASG001TX-015	4-20 mA Output Conductivity Probe; CPVC, Graphite electrodes 1" MNPT both ends Cell constant 0.01
ACCESORIES		ASM01TX-015	4-20 mA Output Conductivity Probe; CPVC,
AM-JB1	NEMA 4X junction box		316 SS electrodes 1" MNPT both ends
AM-HTA-R5	Ball Valve assembly for Hot-Tap insertion		Cell constant 0.1
AM-ARM-5	Submersion mounting kit	ASM1TX-015	4-20 mA Output Conductivity Probe; CPVC, 316 SS electrodes 1" MNPT both ends Cell constant 1
AM-SFL-5	1-1/2" Sanitary flange for AS sensor		
AM-TEE-5	1" Union Tee with 3/4" adapter	ASG10TX-015	4-20 mA Output Conductivity Probe; CPVC, Graphite electrodes 1" MNPT both ends
AM-CBL-AS	Extension cable	ASGIUI X-UIS	
CALIBRATION SOLUTIONS			Cell constant 10
AM-C010U-1P	10μS/cm, 1 pint (500 mL)	ASG50TX-015	4-20 mA Output Conductivity Probe; CPVC,
AM-C100U-1P	AM-C100U-1P 100μS/cm, 1 pint (500 mL)		Graphite electrodes 1" MNPT both ends
AM-C001M-1P	1mS/cm, 1 pint (500 mL)		Cell constant 50
		ASGTX-BT	Blind transmitter housed in an external NEMA 4X enclosure. Mates to any AS or AM probe with a Pt1000 Ω RTD