



Features

- Convenient installation and service
- O-ring seals for high on-stream reliability
- Low Maintenance - reduced cleaning
- Wide Measuring range options
- Automatic Temperature Compensation
- Flow through or submersible installation
- High Temp and Pressure ratings

Description

The AM-Series contacting conductivity sensors are compact, rugged, and highly versatile, designed to deliver reliable performance across a broad range of water quality and industrial applications. Built with 316 stainless steel and Teflon (or PEEK) wetted materials, these sensors offer excellent chemical resistance and long-term durability, making them ideal for both general-purpose use and demanding environments such as boiler blowdown, condensate monitoring, and steam purity control.

Installation is simple and flexible. The AM-Series fits directly into standard $\frac{1}{2}$ " and $\frac{3}{4}$ " pipe fittings, eliminating the need for special flow cells or mounting hardware. With NPT threaded connections ($\frac{1}{2}$ " on the AM12 and $\frac{3}{4}$ " on the AM34), the sensors can be used in both flow-through and submersion configurations, giving operators maximum installation flexibility with minimal complexity.

The sensor's double o-ring seal design enhances on-stream reliability. The outer EPDM (or Parker Hi-Temp) o-ring acts as the primary barrier against chemical attack, protecting the inner o-ring to ensure a consistent, long-term seal even in aggressive fluids. This rugged construction results in lower maintenance demands and improved uptime, especially in scaling or fouling-prone systems.

Each AM-Series sensor includes an integral temperature element tailored to match the connected analyzer, enabling automatic temperature compensation for accurate, real-time conductivity readings. The standard 15-foot cable with stripped and tinned leads simplifies wiring and integration into control panels or transmitters.

For high-temperature or high-pressure applications, the AMB34 variant is purpose-built to withstand extreme conditions while maintaining precise measurement performance. It is an excellent choice for power plants, steam systems, and industrial processes where reliability under stress is critical.

With a wide measuring range, compact footprint, and robust design, the AM-Series sensors are a reliable solution for water treatment, process control, and utility monitoring. Whether used in clean water loops, chemical dosing lines, or high-purity steam applications, the AM-Series delivers consistent, accurate conductivity data with minimal hassle.

Applications

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

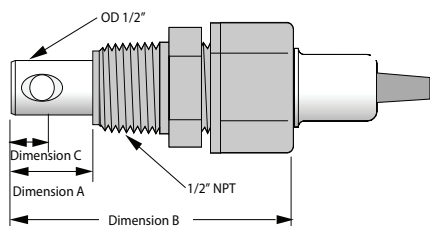
AM-Series Conductivity Sensors

Technical Data

Wetted Materials	AM12: Teflon™, EPDM, 316L Stainless Steel AM34 and AMB34: PEEK, Parker Hi-Temp, 316L Stainless Steel Optional: Kynar® (fitting) for AM12 and AM34
Maximum Pressure / Temperature	
AM12	316 SS fitting: 200 PSI at 120°C, 500 PSI at 100°C , Kynar® fitting: 150 PSI at 120°C.
AM34	316SS fitting: 125 PSI at 150°C, Kynar® fitting: 150 PSI at 120°C.
AMB34	250 PSI at 205°C, 500PSI at 100°C
Hot Tap	50 PSI at all temperatures, no exeptions.
Cell Constants	AM12: 0.01/0.1/1/10 ; AM34: 0.01/0.1/1/10 ; AMB34: 0.01/0.1/1
Process Fitting	AM12: 1/2" NPT; AM34: 3/4" NPT, AMB34: 3/4" NPT
Temperature Compensation	Standard Pt1000rtd, other thermistor available as a special order

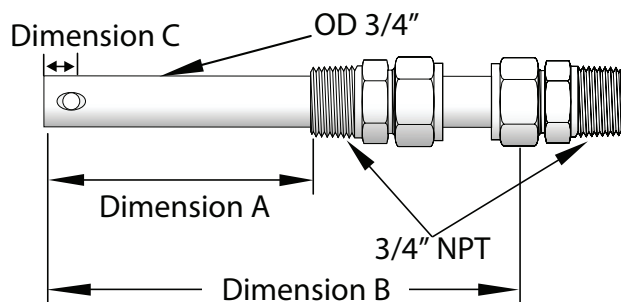
Dimensions

Note: For Hot Tap dimensions please reference: N106-325 AM Series Hot Tap



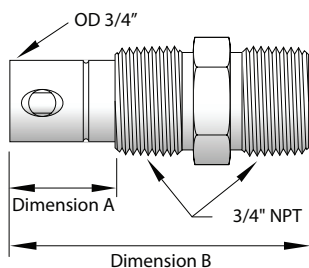
AM12

Cell Constant	A	B	C	μS/cm Range
0.01	3.5"	5.25"	1.98"	0-100
0.1	3.5"	5.25"	0.3"	1-1,000
1	3.5"	5.25"	0.3"	10-10,000
10	7.0"	8.5"	5.1"	100-100,000



AM34

Cell Constant	A	B	C	μS/cm Range
0.01	VAR	8"	2"	0-100
0.1	VAR	8"	0.3"	1-1,000
1	VAR	8"	0.3"	10-10,000
10	VAR	8"	3"	100-100,000



AMB34

Cell constant	A	B	μS/cm Range
0.01	2.75"	4.55"	0-100
0.1	1"	2.8"	1-1,000
1	1"	2.8"	10-10,000

Related Products

AM-2252 Dual Input Controller

AM-2250 Controller

AM-2250TX Transmitter

Wiring

