



Features

- Low Maintenance - Reduced cleaning requirements
- No electrode corrosion - Toroid is fully encapsulated
- One Wetted Material - Easier chemical compatibility
- Wide Measuring range
- Automatic Temperature Compensation

Description

The Model AM3444 sensor was designed for high pressure, high temperature conductivity measurements, and is an ideal choice for boiler control applications. Blowdown control, condensate monitoring, leak detection on heat exchangers, and steam purity measurements are just a few of the many applications in which this rugged and reliable sensor can be used.

Wetted materials of construction are 316 stainless steel, PEEK, and EPDM o-rings. All possible leak paths through the sensor are double sealed with o-rings for maximum on-stream reliability. Hot water is a severe environment for any elastomer, and the front seals bear the brunt of chemical attack, allowing the back seals to remain relatively unaffected. The result is that sensor life

Applications

- Boiler condensate
- Blowdown control without coolers
- Cooling Towers

Model 3444 Conductivity Sensors

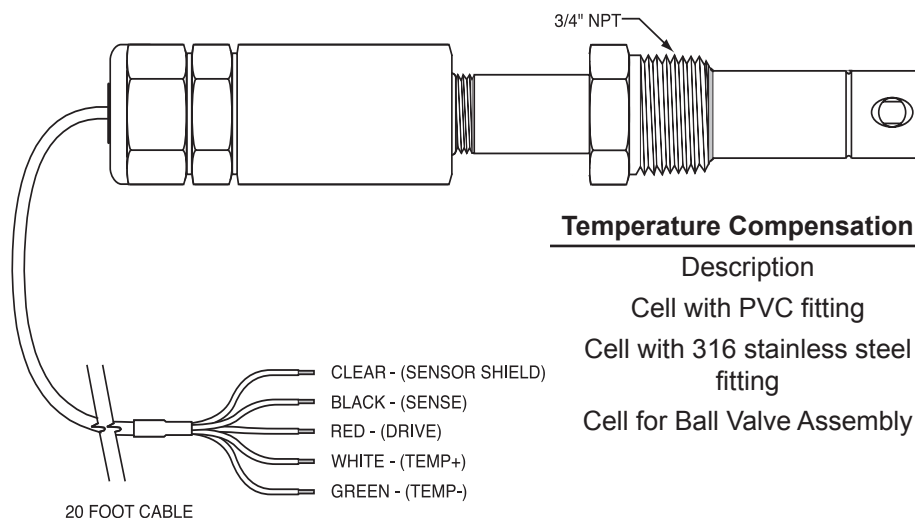
Technical Data

Wetted Materials	
Insulator	PEEK, with Teflon backup rings for EPDM steam service o-rings
O-rings	EPR
Electrodes	316 Stainless Steel
Fitting	316 Stainless Steel
Maximum Pressure / Temperature	100 PSIG at 150°C 500 PSIG at 100°C
Cell Constants	0.05*, 0.5*, 1.0 and 2.0*
Connections	
Process Fitting	3/4" Male NPT
Electrical	Stripped and tinned leads
Temperature Compensation	3KΩ NTC Thermistor or Pt1000*

* Cells with these constants are not compatible with the Shark or Shark TX controller

**For temperatures higher than 120 C (beyond temperature compensation capabilities of our controllers) the Pt1000 is recommended.

Dimensions



Temperature Compensation Device Selection

Description	Code
Cell with PVC fitting	P
Cell with 316 stainless steel fitting	S
Cell for Ball Valve Assembly	HT

Order Information

Cell Constant Selection	
Constant	Code
0.05	005
0.1	01
0.2	02
1.0	1
2.0	2

Cable Options	
Description	Code
15' Tefzel cable	T
Teflon pigtail wires with attached Junction Box	J

Temperature Sensor	
Description	Code
PT1000 RTD	1
3 kΩ NTC	2

Related Products

- AM3422] Stainless steel conductivity probes
- AM3455 Stainless steel conductivity probes with Sanitary flange