



Features

- Temperature up to 150 °C
- Low Maintenance - Reduced cleaning requirements
- 316 SS electrode with high temperature epoxy and Tefzel cable
- Automatic temperature compensation
- Range of cell constants

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
- Blow-down control without coolers
- Cooling Towers

Model 3444 Conductivity Sensors

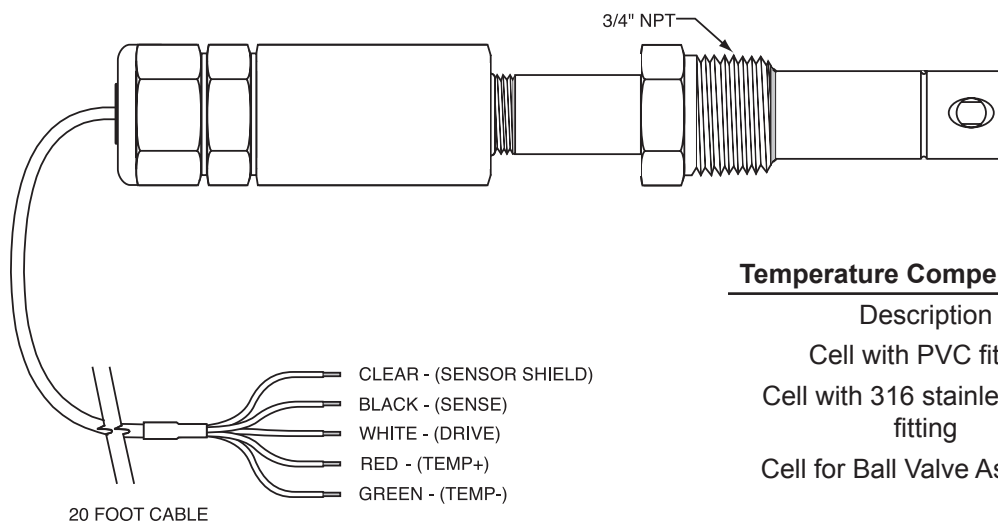
Technical Data

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.

Wiring



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		Cable Options		Temperature Sensor	
Constant	Code	Description	Code	Description	Code
0.05	005	15' Tefzel cable	T	PT1000 RTD	1
0.1	01	Teflon pigtail wires with attached Junction Box	J	3 kΩ NTC	2
0.2	02				
1.0	1				

Related Products

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