

Specifications

Temperature range with Insulators:

- 35°C to 95°C CPVC
- 35°C to 120°C Teflon™
- 35°C to 150°C PEEK

Operating Pressure:

Max 100 psig @ 95°C with CPVC Insulator

Max 100 psig @ 120°C with TEFLON Insulator

Max 500 psig @ 120°C with PEEK Insulator

Process Connection:

1" MNPT Front & Rear Threads

Wetted Materials

Insulator: CPVC Standard, Teflon™, PEEK optional

Electrodes: 316SS standard, Titanium, Monel, Hast C-276 optional

O-Rings: EPDM standard, Viton/Kalrez optional

Cell Constant:

K=0.1/cm, K=1.0/cm, K=2.0/cm

Measuring Range:

Dependent Upon Cell Constant and Mating Transmitter Used

Temperature Element:

PT1000, PT 100. Others on request

Cable Length: 10-ft standard, 100-ft maximum

Made in America



SC-50 Double Threaded Conductivity Sensors



The Foxcroft SC-50 contacting conductivity sensor features a double threaded body to permit inline, submersible or immersion mounting.

It's designed for general purpose applications between 10 to 200,000 microSiemens with outstanding chemical resistance in a wide variety of media. The open geometry front end reduces maintenance and is ideal for remote installations since it resists clogging.

The most common conductivity ranges are covered with the available cell constants of K=0.1/cm, K=1.0/cm & K=2.0/cm.

Exact recommended conductivity range for each cell constant depends upon mating instrument.

- K=0.1/cm cell constant can be used for ranges as low as 10-200 $\mu\text{S}/\text{cm}$ or as high as 50-5,000 $\mu\text{S}/\text{cm}$
- K=1.0/cm cell constant can be used for range as high as 100-100,000 $\mu\text{S}/\text{cm}$
- K=2.0/cm cell constant can be used for range as high as 200-200,000 $\mu\text{S}/\text{cm}$

With dual O-ring construction provides reliability and long sensor service life. Only the front ring is exposed to the process fluid while the rear ring protects the electronics.

Waterproofing sealing options allow the sensor to be completely submerged without an immersion rod or standpipe. Integral vinyl or NORPRENE sealing hoses are ideal for corrosive environments where the seal on the back of the sensor may be degraded over time.

10-ft long cables are standard, lengths up to 100 feet can be supplied. Cable extensions with water proof and corrosion resistant quick disconnect fittings make it quick and easy to remove the sensor for maintenance.

SC-50 Sensor Specifications

The table below contains the various available full conductivity ranges when the FX-300--CON transmitter is used for various cells.

LOW RANGE OPTIMIZED			STANDARD RANGE			HIGH RANGE OPTIMIZED		
NOM CELL	CAL CELL RANGE	FULL RANGE	NOM CELL	CAL CELL RANGE	FULL RANGE	NOM CELL	CAL CELL RANGE	FULL RANGE
0.1L	0.05-0.15	0-200 μ S	0.1	0.03-0.17	0-5,000 μ S	0.2	0.06-0.34	0-20,000 μ S
1.0L	0.5-1.50	0-2mS	1.0	0.30-1.70	0-50mS	2.0	0.60-3.40	0-200mS
			2.0	0.60-3.40	0-100mS			

Dimension Details SC-50 Cell Constants 0.1, 1.0 & 2.0

