

## 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 or Max  
500 psig @ 50°C with CPVC  
Insulator

Max 100 psig @ 120°C or Max  
500 psig @ 80°C with TEFLON  
Insulator

Max 100 psig @ 150°C or Max  
500 psig @ 100°C with PEEK  
Insulator

### Process Connection:

¾" MNPT Front Threads; ¾"  
MNPT Rear Threads with  
compression fitting

### 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:

$K = 10.0 / \text{cm}$

### 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-52 Compact $K=10.0/\text{cm}$ Conductivity Sensors



Shown above from left to right: the insulator is TEFLON, CPVC & CPVC; with sensor body & exposed thermowell for fast temperature response, made of 316SS and 316SS & CPVC.

The Foxcroft SC-52 contacting conductivity sensor provides a high  $K=10.0/\text{cm}$  cell constant in a small footprint.

For use up to 1,000,000 microSiemens/cm (1,000mS/cm) with outstanding chemical resistance for a wide variety of media. The supported range is determined by the mating contacting conductivity transmitter used.

The thermowell containing the temperature sensing element in its tip is exposed directly to the stream assuring rapid automatic temperature compensation of conductivity reading for maximum accuracy.

Process connections are ¾" NPT for inline insertion installations up to 500 psig pressure; the rear portion of sensor is ¾" stainless steel tubing which can be gripped by a swage fitting for immersion and submersion applications.

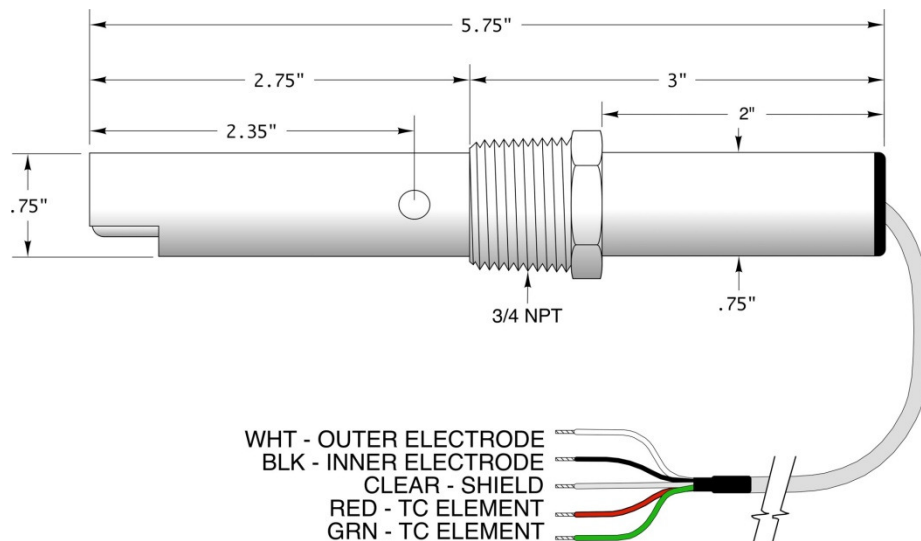
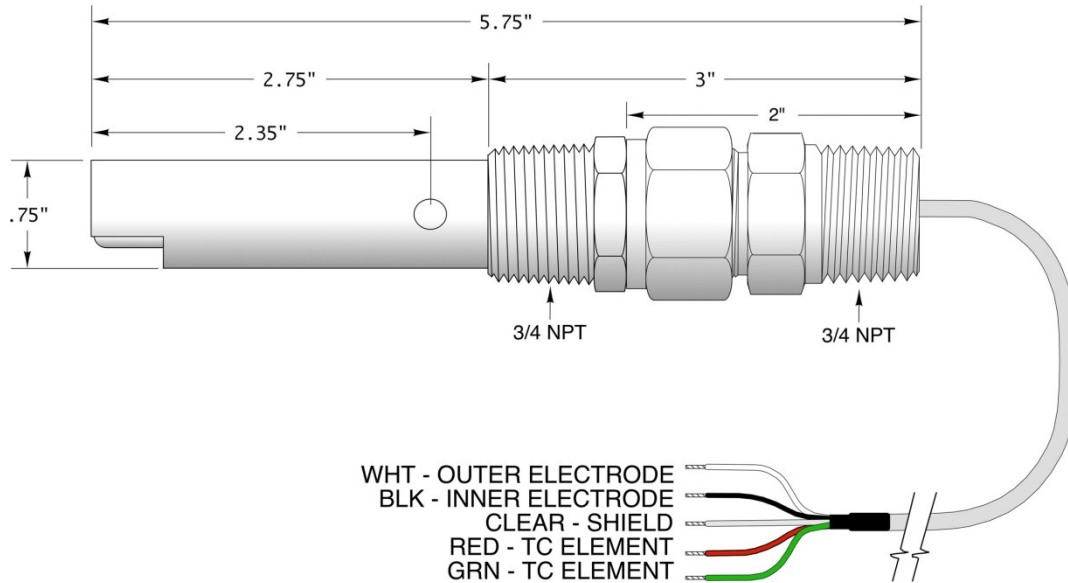
With dual O-ring construction, the rear ring protects the electronics while only the front ring is exposed to the process fluid.

Standard materials of construction are 316SS standard for the electrodes and thermowell. The wetted material of construction for the insulator is CPVC standard, with TEFLON™ (PTFE) or PEEK available as options. The wetted material of construction for the sensor body and threads is 316SS standard, with CPVC available as an option.

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 easy to remove the sensor for cleaning or maintenance.

# Sensor Specifications

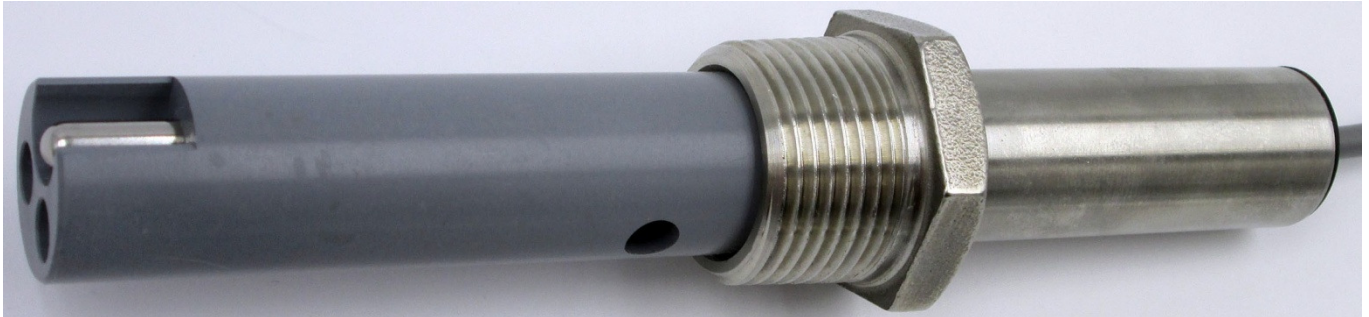
## Dimension Details SC-52



Drawings show configurations without the waterproofing option. Please inquire to factory for overall sensor length and dimensional details if the waterproofing option is needed.

The compression fitting style assembly can also be used for fully submersible installation as long as a suitable immersion rod (a.k.a. standpipe) is secured to the rear 3/4" MNPT threads.

## *SC-52 Sensor Specifications*



*The sensor shown above has 316SS electrodes and sensor body with CPVC insulator. The 316SS electrodes are not visible as they are located inside of the two bored holes that go along the length of the insulator and are purged by the two corresponding vent holes on each side. The exposed 316SS thermowell is, however, visible which provide for fast temperature measurement to ensure accuracy conductivity values at any process condition.*