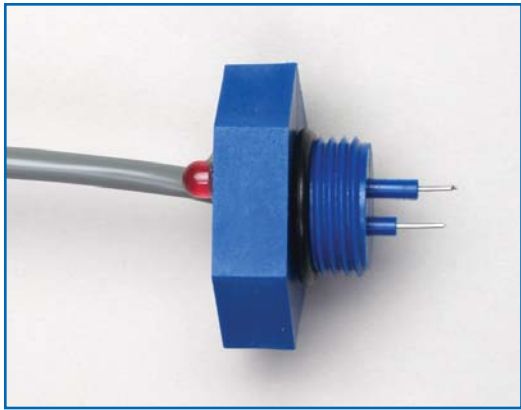




C Series

Conductivity Sensor for Conductive Fluids



C4310 Conductivity Sensor

The C4310 is a self-contained single-point Conductivity Sensor for use with conductive fluids. It is supplied factory-set for 100K Ω sensitivity and contains an LED indicator that illuminates when there is no fluid on the electrodes. The C4310 requires a power supply of 7 to 24 VDC and has an open collector (NPN) output, capable of sinking 100 mA, maximum.

There are two versions available. The C4310-1 has an output of “ON” when the electrodes are dry. The C4310-2 is “OFF” when the electrodes are dry.

The C4310 is supplied with a 3/4”-16 threaded boss that is designed to mount in a standard SAE #10 size port (a Buna-N O-ring is supplied). It features 316 stainless steel sensing electrodes and a Nylon 6-6 housing for good compatibility with a wide range of fluids.

Features

- Appropriate for dirty fluids with a large amount of particulate matter
- Small size
- Self contained
- Suitable for most conductive fluids

C4310-x Specifications

Wetted Materials – Housing: Nylon 6-6
Electrodes: 316 stainless steel
O-Ring: Buna-N rubber

Max. Operating Pressure – 100 PSIG (6.8 Bar)

Operating Temperature Range – -40°C to 70°C (-40°F to 158°F)

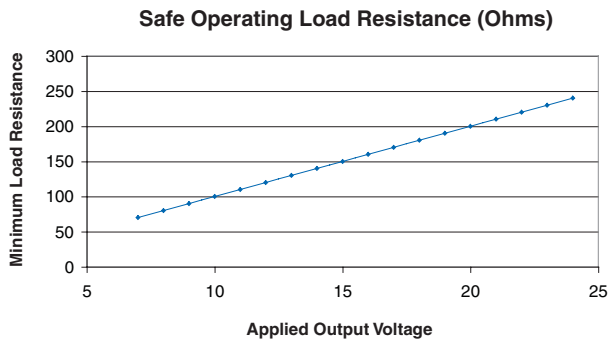
Sensitivity – 100KΩ ± 4 KΩ (factory set)

Output – Open Collector (NPN), capable of sinking 100 mA, max.
Max. 100 mW, continuous

Power Supply – 7 to 24 VDC

Response Time – 20 to 100 msec.

Operation – LED is “ON” when electrodes are dry; C4310-1 output is “ON”, C4310-2 output is “OFF”



C4310 Installation

1. Apply a small amount of a suitable O-ring lubricant to the O-ring.
2. Be sure that the sealing surface of the mounting port is clean. Screw the C4310 into it and tighten 1/8 to 1/4 turn beyond finger tight.
3. Connect the wires from the device as follows:
Red wire = DC power in (7- 24 VDC)
Black wire = Common
Green wire = Output

All wiring should be done in accordance with all applicable codes and regulations to ensure safety.

All specifications are subject to change without notice.



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