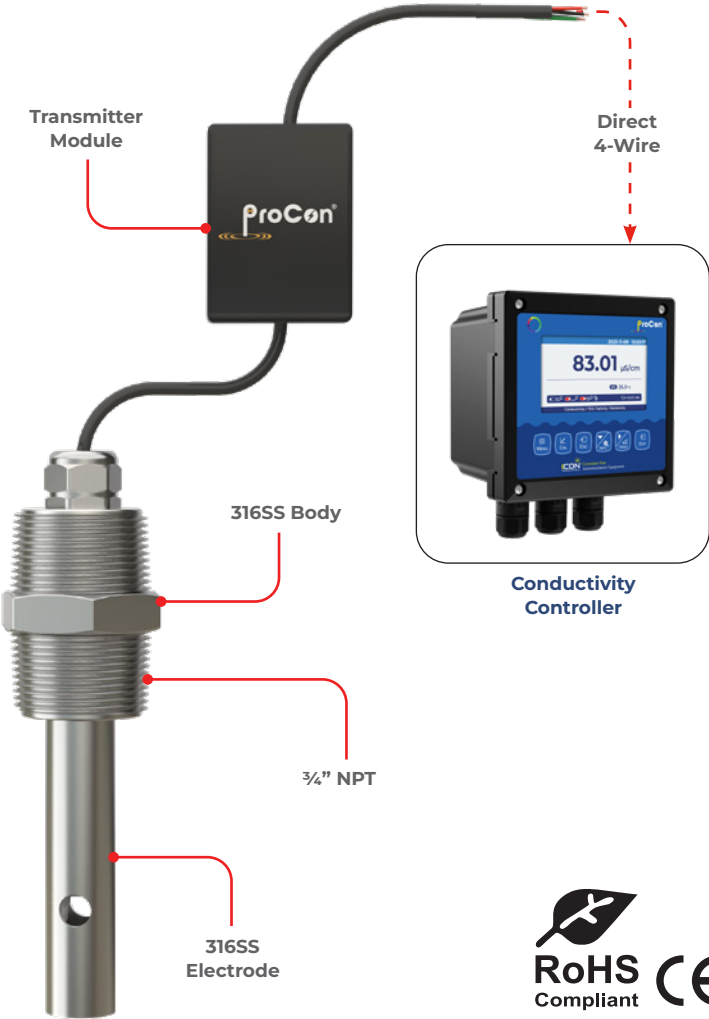


ProCon® — C950 Series

High-Temperature Conductivity Sensor



- ✓ 4-20mA Output
- ✓ Quick Response Time
- ✓ Eliminate Costly Conductivity Module
- ✓ Conductivity | TDS | Salinity | Resistivity
- ✓ RS485 MODBUS Communication

High-Temperature Industrial Conductivity Sensor

The ProCon® C950 series high-temperature conductivity sensor delivers reliable performance in industrial applications up to 200,000 µS/cm. Designed for harsh environments with corrosive media and fluctuating temperatures, the C950 series transmitter is built for long-term durability. Its construction features corrosion-resistant 316SS ensuring stability and longevity in high-temperature conditions. When paired with a ProCon® conductivity controller featuring SimplCal®, the system provides a seamless and efficient user experience.

Output options including 2-wire 4–20 mA, 4-wire, and 4–20 mA + RS485—simplify calibration and communication with remote displays and controllers.

The ProCon® series also offers flexible cabling configurations across the range. All cables are EMI-shielded and fully potted within the sensor body, providing robust environmental protection.



Specifications

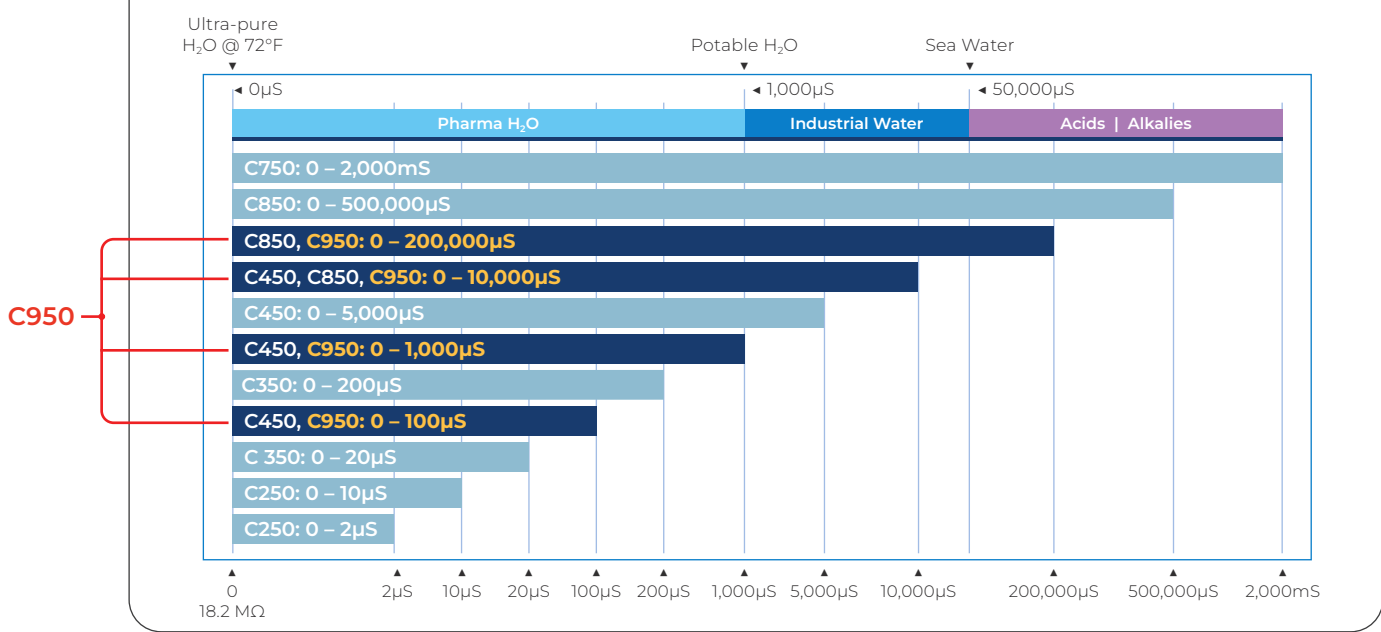
Measuring Range	0 – 100µS 0 – 1,000µS 0 – 10,000µS 0 – 200,000µS
Power Supply	9 ~ 36VDC
Outputs	4-20mA (2-wire loop) ProCon® Display (4-Wire) 4-20mA + RS485 (6-wire)
Accuracy	± 1.0% of F.S
Temperature Accuracy	± 0.5°C
Operating Temperature	14 to 250°F -10 to 121°C
Maximum Pressure	≤ 87 psi
Sensor Body Protection Class	Stainless Steel IP68
Electrode Material	Stainless Steel
Calibration	Factory Calibrated
Process Connection	¾" NPT
Temperature Compensation	PT1000

ProCon® — C950 Series

High-Temperature Conductivity Sensor

Factory Calibrated

ProCon® conductivity sensors come with a factory default that covers the range of the sensor



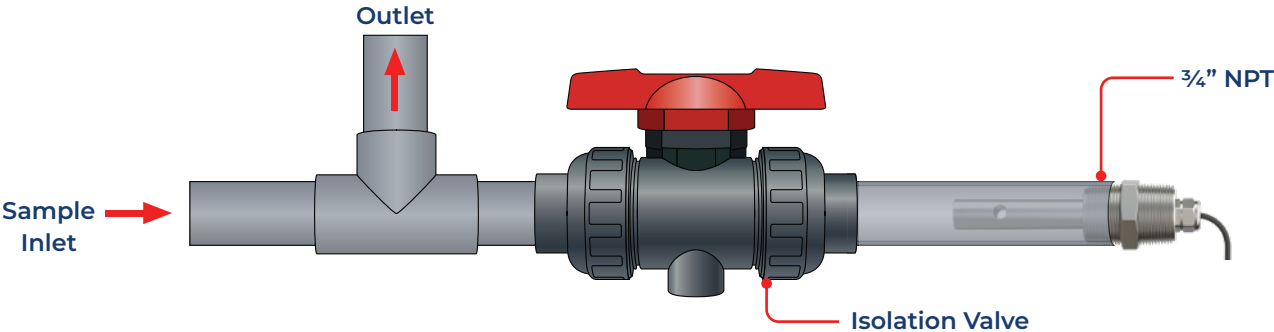
Sensor Type

Cell	Models	Range
Cell 0.01	C250	0 – 2µS
Cell 0.01	C250	0 – 10µS
Cell 0.1	C350	0 – 20µS
Cell 0.01	C450, C950	0 – 100µS
Cell 0.1	C350	0 – 200µS
Cell 0.1	C450, C950	0 – 1,000µS
Cell 0.1	C350	0 – 2,000µS
Cell 1.0	C450	0 – 5,000µS
Cell 1.0	C450, C850, C950	0 – 10,000µS
Cell 10	C850, C950	0 – 200,000µS
Cell 0.4	C850	0 – 500,000µS
Toroidal	C750	0 – 2,000mS

Typical Applications

- ✓ High Purity Water
- ✓ Water Treatment
- ✓ Pharmaceutical
- ✓ Food and Beverage
- ✓ Interface Detection
- ✓ Desalination
- ✓ Chemical Plants
- ✓ Aquariums
- ✓ Agricultural Industries

Typical Installation

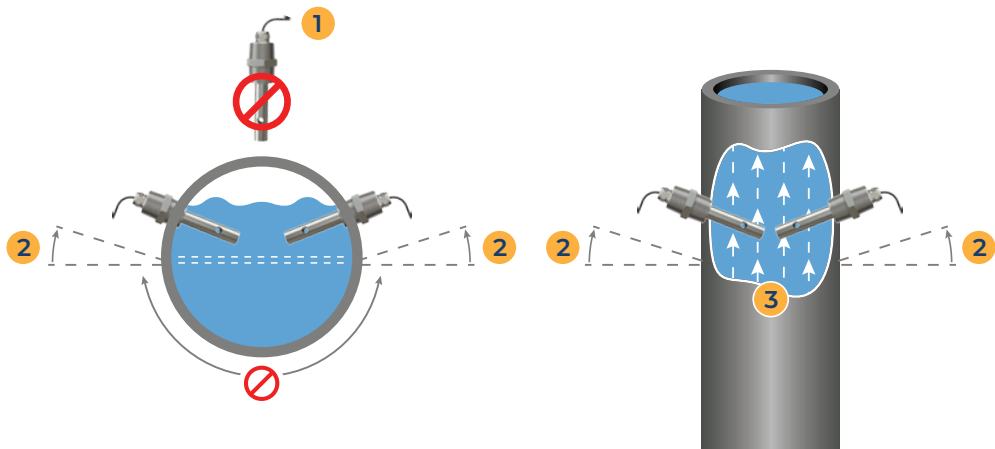


ProCon® — C950 Series

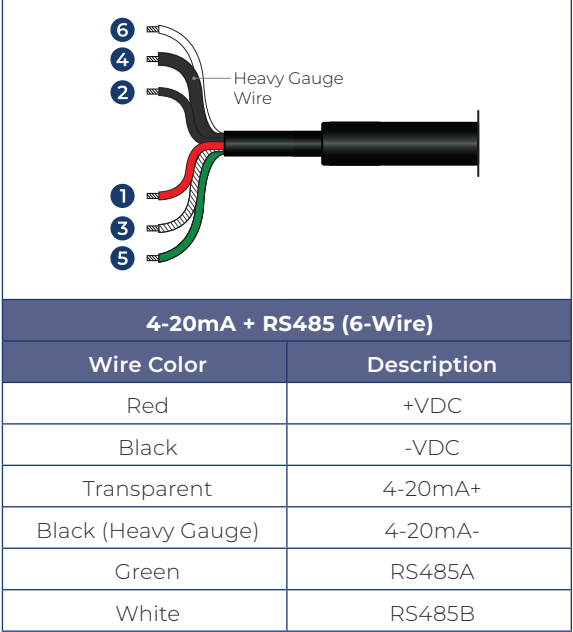
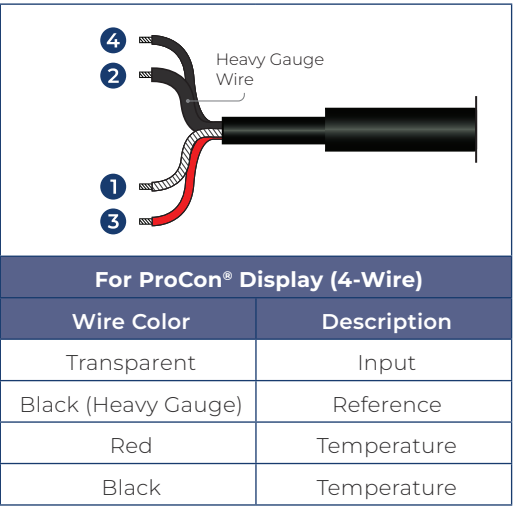
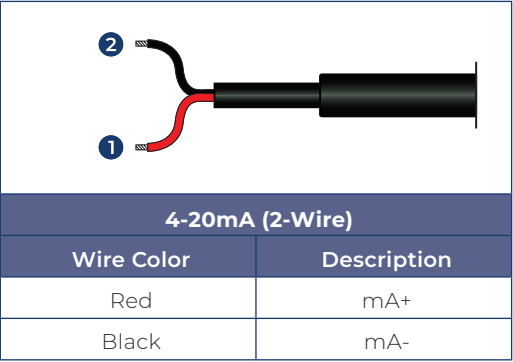
High-Temperature Conductivity Sensor

In-line Mounting

- 1 Avoid vertical installation.
(Air may be present when pipe is not full)
- 2 Optimum installation 15° above horizontal.
- 3 Process liquid should flow upward.
(For downward flow ensure backpressure is present to avoid air within pipe)



Wiring Schematic



4-20mA + RS485 (6-Wire)	
Wire Color	Description
Red	+VDC
Black	-VDC
Transparent	4-20mA+
Black (Heavy Gauge)	4-20mA-
Green	RS485A
White	RS485B

For ProCon® Display (4-Wire)	
Wire Color	Description
Transparent	Input
Black (Heavy Gauge)	Reference
Red	Temperature
Black	Temperature

ProCon® — C950 Series

High-Temperature Conductivity Sensor

Model Selection

C950 — High Temperature Conductivity Sensor				
Part Number	Material	Output	Cell Constant	Range
C950-G-D-1-F	Stainless Steel	4-wire (for ProCon® Display)	0.01	0-100μS
C950-J-D-1-F	Stainless Steel	4-wire (for ProCon® Display)	0.1	0-1,000μS
C950-M-D-1-F	Stainless Steel	4-wire (for ProCon® Display)	1	0-10,000μS
C950-P-D-1-F	Stainless Steel	4-wire (for ProCon® Display)	10	0-200,000μS
C950-G-M-1-F	Stainless Steel	4-20mA (2-wire loop powered)	0.01	0-100μS
C950-J-M-1-F	Stainless Steel	4-20mA (2-wire loop powered)	0.1	0-1,000μS
C950-M-M-1-F	Stainless Steel	4-20mA (2-wire loop powered)	1	0-10,000μS
C950-P-M-1-F	Stainless Steel	4-20mA (2-wire loop powered)	10	0-200,000μS
C950-G-S-1-F	Stainless Steel	RS485 + 4-20mA	0.01	0-100μS
C950-J-S-1-F	Stainless Steel	RS485 + 4-20mA	0.1	0-1,000μS
C950-M-S-1-F	Stainless Steel	RS485 + 4-20mA	1	0-10,000μS
C950-P-S-1-F	Stainless Steel	RS485 + 4-20mA	10	0-200,000μS



C950
Conductivity Sensor

Easy Install Pipe Saddles				
Part Number	Material	Size	Seal	Thread
PSA-2	PVC	2"	FPM	3/4" NPT
PSA-3	PVC	3"	FPM	3/4" NPT
PSA-4	PVC	4"	FPM	3/4" NPT
PSA-6	PVC	6"	FPM	3/4" NPT
PSA-8	PVC	8"	FPM	3/4" NPT

Easy Install
Pipe Saddles

