

ProCon® — C750 Series

Conductivity Sensor Transmitter



- ✓ Eliminate Costly Conductivity Module
- ✓ RS485 Outputs
- ✓ Temperature Compensated
- ✓ High Accuracy
- ✓ 3/4" G Connection
- ✓ Factory Calibrated
- ✓ Toroidal Measurement
- ✓ Conductivity | TDS | Salinity | Resistivity

Introducing a toroidal conductivity sensor for when you need extreme range.

The ProCon® C750 series toroidal (inductive) conductivity sensors provide a broad measuring range and reliable toroidal technology spanning the range 0-2000 mS/cm.

The C750 series is built for a trouble-free and extended service life, and is resistant to corrosion, coatings, and fouling that are typical of contacting conductivity sensors. The standard PFA Teflon® body material and Viton o-ring offers excellent chemical resistance.

The C750 series models are equipped with G 3/4 " thread for submersion installation. Built into the sensor is a PT1000 RTD temperature element.

The ProCon® line of analytical sensors have been designed for difficult industrial applications and to outperform even in extreme conditions.

The 8-wire RS485 output simplifies calibration and communication with the ProCon Toroidal Controller.

Specifications

Power Supply	9 – 36VDC
Sensor Electrode Material	PFA Teflon®
Housing Material	PFA 316 SS
IP Rating	IP68
Measurement Range	0 – 2,000mS/cm
Accuracy	±0.01% F.S
Pressure Range	≤ 230 Psi 16 Bar
Temperature Compensation	PT1000 (Std) PT100
Temperature Range	-4 – 266°F -20 – 130°C
Calibration	Factory Calibrated
Communication Method	RS485
Cable Length	Flying Lead: 10m cable can be extended to 100m
Installation Thread	G 3/4"
Measurement Technology	Inductive



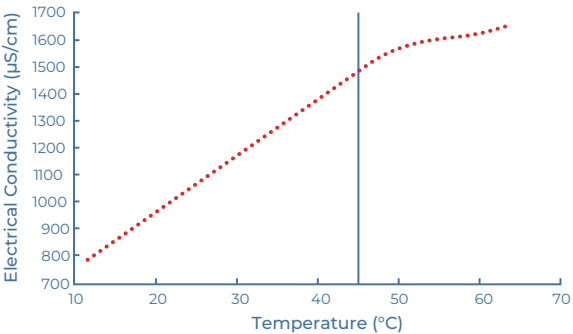
Advanced electronic circuitry for automatic sensor recognition ensuring trouble-free calibration when connected to the ProCon® controller

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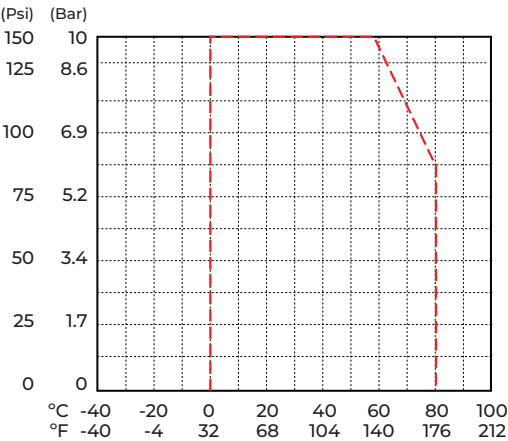
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Temperature Effects

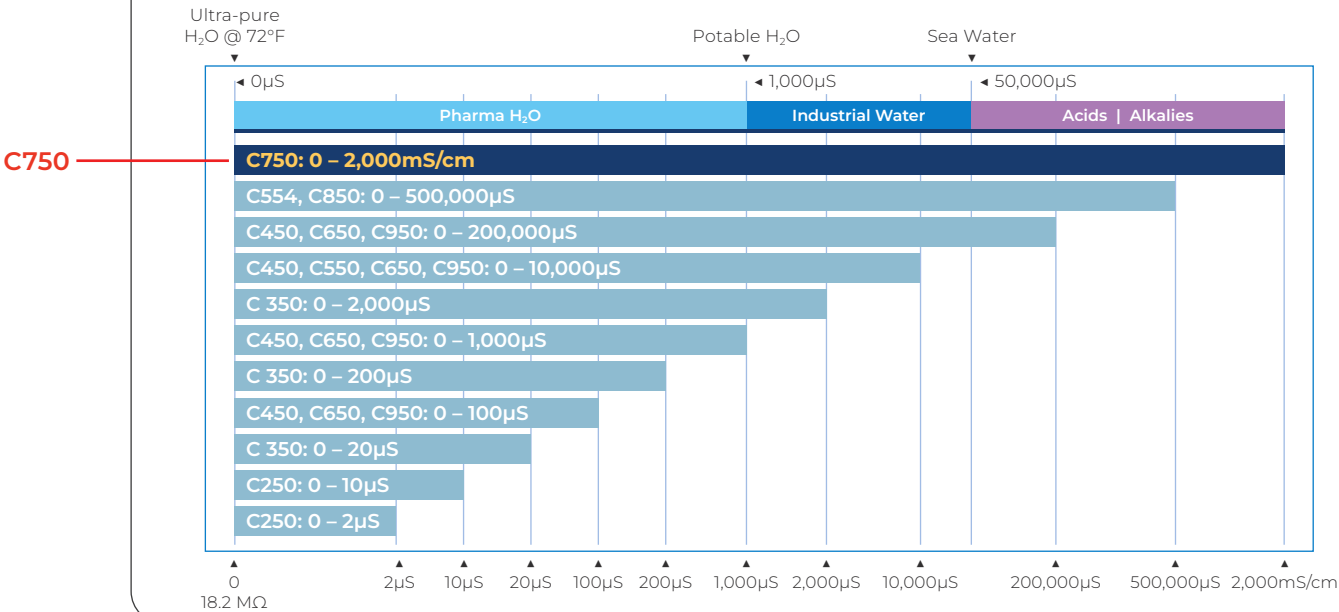


Temperature vs. Pressure



Factory Calibrated

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



Industrial GP Purpose

Cell	Models	Range
Cell 0.1	C250	0 – 2µS
Cell 0.1	C250	0 – 10µS
Cell 0.1	C350	0 – 20µS
Cell 0.01	C450, C650, C950	0 – 100µS
Cell 0.1	C350	0 – 200µS
Cell 0.1	C450, C650, C950	0 – 1,000µS
Cell 0.1	C350	0 – 2,000µS
Cell 1.0	C450, C550, C650, C950	0 – 10,000µS
Cell 10	C450, C650, C950	0 – 200,000µS
Cell 0.4	C554, C850	0 – 500,000µS
Cell 2.7	C750	0 – 2,000mS/cm

Typical Applications

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

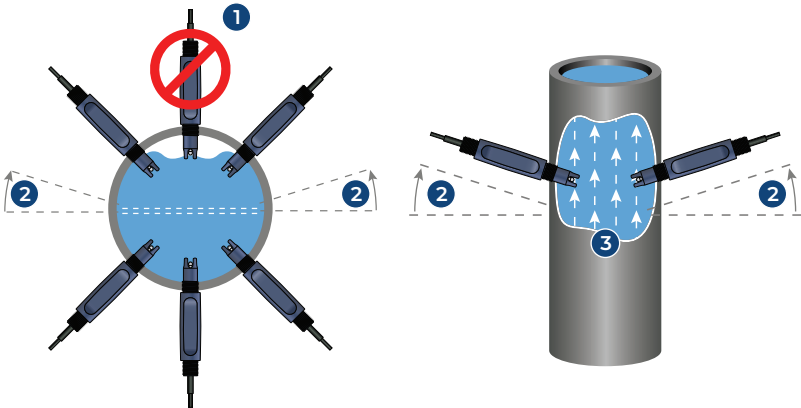
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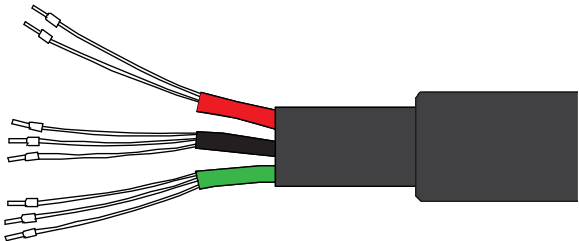
In-line Mounting

1. If air is present, avoid vertical installation (okay if pipe is full).
2. Optimum installation 15° above horizontal.
3. Process liquid should flow upward. (for downward flow ensure backpressure is present in order to avoid air within pipe)

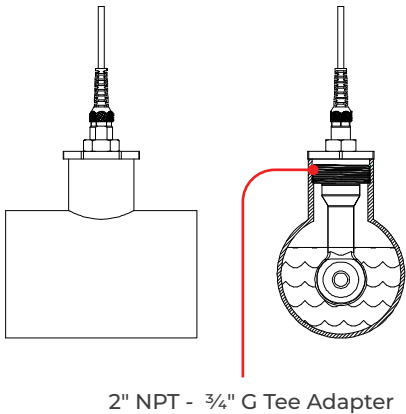
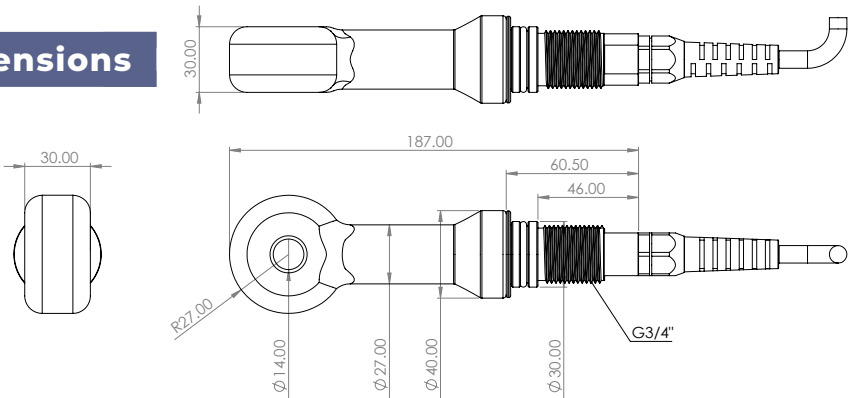


Wiring

C750 — Wiring			
Description	Heat-shrink Tube Color	Wire Color	Wire Description
Drive	Red	Red	Pulse 1
		Brown	Pulse 2
Receive	Black	Orange	Receive 1
		Black	Receive 2
		Clear	Receive 3
Temp	Green	Yellow	Temp +
		Green	GND
		Clear	Temp -



Dimensions



Model Selection (Controller Included)

C750 — Toroidal Conductivity Sensor					
Part Number	Material	Output	Cell Constant	Range	Connection
C750-T-D-1-F	PFA	RS485	2.7	0-2,000mS/cm	Flying Lead



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