





Specifications

Power Supply	9 – 36VDC		
Sensor Electrode Material	Titanium Alloy		
Housing Material	PP		
IP Rating	IP68		
Measurement Range	0 – 2µS 0 – 10µS		
Accuracy	±1% of Reading		
Pressure Resistance	150 Psi		
Temperature Compensation	PT1000 (Std)		
Temperature Range	32 – 176°F 0 – 80°C		
Calibration	Factory Calibrated		
Connection Methods	4-20mA 2 wire4-wire (direct to ProCon® controller)4-20mA + RS485		
Cable Length (w/o J-Box)	M12: 5m cable can be extended to 100m		
Installation Thread	NPT 3/4"		

- Ultrapure H₂O Range down to 2µS
- Eliminate Costly Conductivity Module
- Oirect 4-20mA & RS485 Outputs
- Temperature Compensated
- **High Accuracy**
- Factory Calibrated
- 2-Electrodes
- Optional Local Display c/w High/Low **Alarm Set-points**

Tough but sensitive — High performance with industrial strength titanium electrode

The ProCon® C250 series double electrode conductivity sensor transmitter has been proven to operate seamlessly in industrial ultra-high purity H₂O applications.

Industrial environments can be harsh, featuring corrosive substances and fluctuating temperatures. The ProCon® C250 series conductivity sensor transmitter is built with durability in mind. Constructed from rugged materials such as titanium, corrosion-resistant plastics and double shielded cable, this robust build ensures longevity and reliability. Pair it with a ProCon® conductivity controller (featuring SimplCal®) for a truly seamless experience.

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

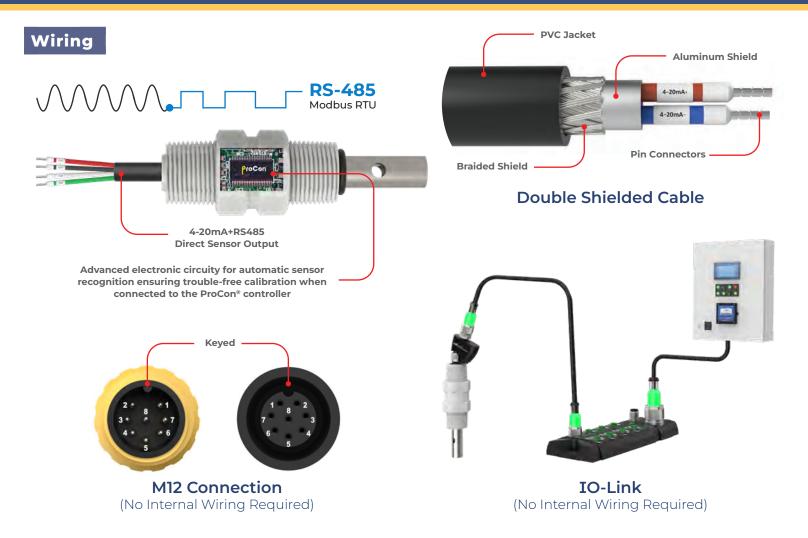
The 2-wire 4-20mA. 4-wire or 4-20mA + RS485 output options simplify calibration and communication with remote displays and controllers.

Always ask for **ProCon® C250** by name to be sure you are getting a genuine Icon Process Controls product.









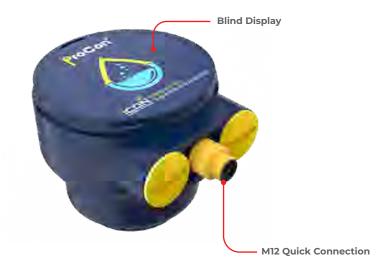
Cable Options

The ProCon® series offer complete flexibility of cabling options throughout the range. All cables are shielded against spurious EMI and are potted inside the sensor ensuring environmental protection.

The standard cable length for most sensors is 5m (15 ft). However, cables can be supplied as any continuous size up to 100m.

Junction Box



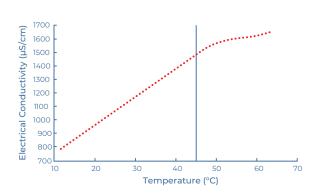




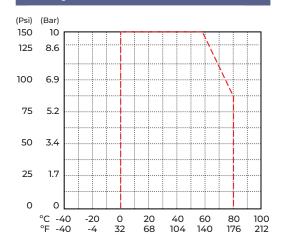




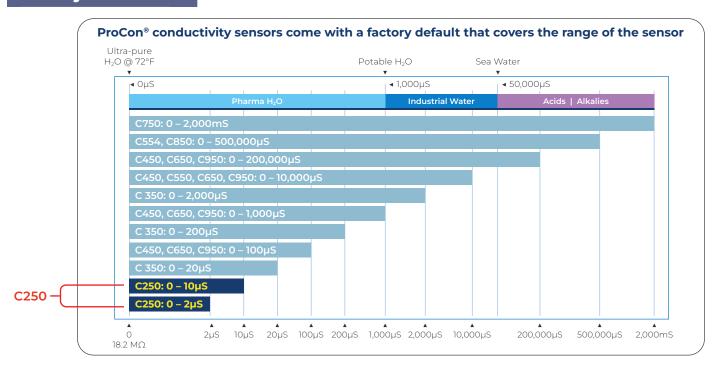
Temperature Effects



Temperature vs. Pressure



Factory Calibrated



Industrial GP Purpose

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, 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
Toroidal	C750	0 – 2,000mS

Typical Applications

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



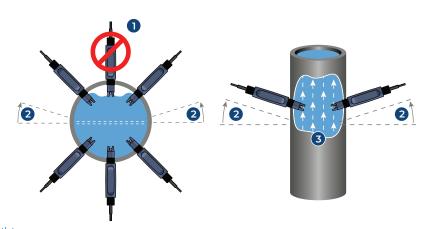


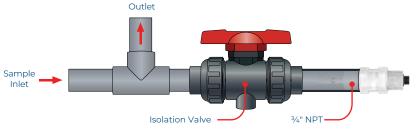




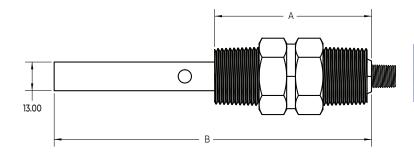
In-line Mounting

- 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)





Dimension



Cell Class	М	112	Flying Lead		
	A (mm)	B (mm)	A (mm)	B (mm)	
Cell 0.01	78	151	67.8	140.8	

Model Selection

C250 — High Purity Conductivity Sensor							
Part Number	Material	Output	Cell Constant	Range	Connection		
C250-A-D-1-M	Titanium Alloy	4-wire (for ProCon® display)	0.01	0-2µS	M12		
C250-D-D-1-M	Titanium Alloy	4-wire (for ProCon® display)	0.01	0-10µS	M12		
C250-A-M-1-M	Titanium Alloy	2-wire 4-20mA	0.01	0-2µS	M12		
C250-D-M-1-M	Titanium Alloy	2-wire 4-20mA	0.01	0-10µS	M12		
C250-A-S-1-M	Titanium Alloy	RS485 + 4-20mA	0.01	0-2µS	M12		
C250-D-S-1-M	Titanium Alloy	RS485 + 4-20mA	0.01	0-10µS	M12		
C450-M-M-1-M	Titanium Alloy	4-20mA (2-wire, std)	1	0-10,000µS	M12		
C450-P-M-1-M	Titanium Alloy	4-20mA (2-wire, std)	10	0-200,000µS	M12		
C450-G-S-1-M	Titanium Alloy	RS485 + 4-20mA	0.01	0-100µS	M12		
C450-J-S-1-M	Titanium Alloy	RS485 + 4-20mA	0.1	0-1,000µS	M12		
C450-M-S-1-M	Titanium Alloy	RS485 + 4-20mA	1	0-10,000µS	M12		
C450-P-S-1-M	Titanium Alloy	RS485 + 4-20mA	10	0-200,000µS	M12		

Last digit: "M" for M12 Connection (std), "F" Flying Lead - consult factory

Consult factory for custom ranges







Fittings

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



True Union Tee Fitting					
Part Number	Material	Size	Seal	Thread	Connection
TUPA-PV-5	PVC	1/2"	FPM (std) EPDM	3/4" NPT	Socket NPT
TUPA-PP-5	PP	1/2"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PF-5	PVDF	1/2"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PV-7	PVC	3/4"	FPM (std) EPDM	3/4" NPT	Socket NPT
TUPA-PP-7	PP	3/4"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PF-7	PVDF	3/4"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PV-1	PVC	1"	FPM (std) EPDM	3/4" NPT	Socket NPT
TUPA-PP-1	PP	1"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PF-1	PVDF	ן"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PV-15	PVC	1 1/2"	FPM (std) EPDM	3/4" NPT	Socket NPT
TUPA-PP-15	PP	1 1/2"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PF-15	PVDF	1 1/2"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PV-2	PVC	2"	FPM (std) EPDM	3/4" NPT	Socket NPT
TUPA-PP-2	PP	2"	FPM (std) EPDM	3/4" NPT	Butt NPT
TUPA-PF-2	PVDF	2"	FPM (std) EPDM	3/4" NPT	Butt NPT





