ProCon[®] — C250 Series





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 wire 4-wire (direct to ProCon® controlle 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

Corrosion-Free

Instrumentation Equipment

- Oirect 4-20mA & RS485 Outputs
- O Temperature Compensated
- High Accuracy

Industrial

Analytical Equipment

- Factory Calibrated
- ⊘ 2-Electrodes
- ✓ Conductivity | TDS | Salinity | Resistivity
- Optional Local Display c/w High/Low Alarm Set-points

Tough but sensitive — High performance with industrial strength titanium electrode

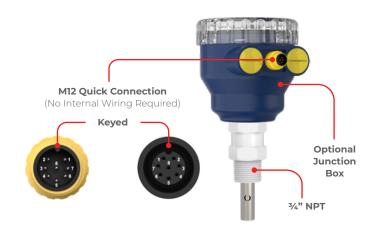
The ProCon[®] C250 series double electrode conductivity sensor transmitter has been proven to operate seamlessly in industrial ultra-high purity H₂O applications.

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.

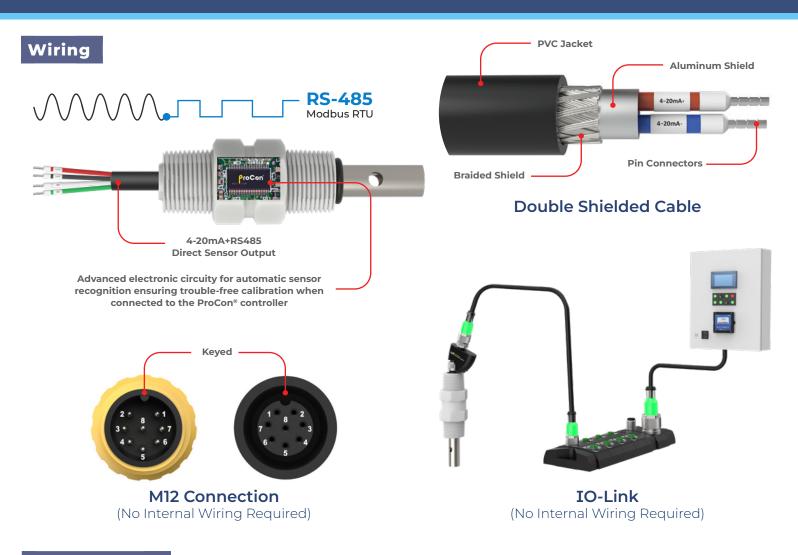
Always ask for **ProCon® C250** by name to be sure you are getting a genuine **Icon Process Controls** product.



ProCon[®] — C250 Series Conductivity Sensor Transmitter



Corrosion-Free Instrumentation Equipment



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.

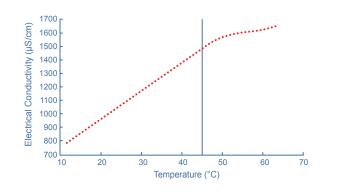


ProCon[®] — C250 Series

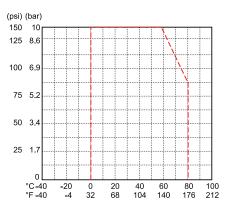




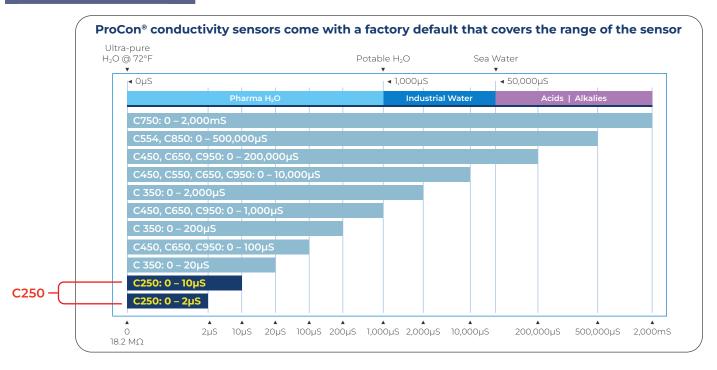
Temperature Effects



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
- Oesalination
- Ochemical Plants
- Aquariums
- Ø Agricultural Industries

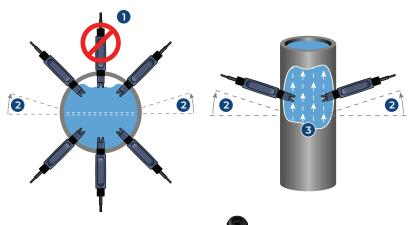
ProCon[®] — C250 Series Conductivity Sensor Transmitter



Corrosion-Free Instrumentation Equipment

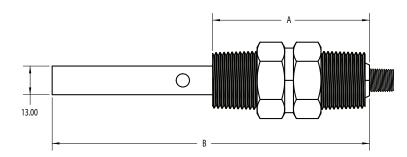
In-line Mounting

- 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)



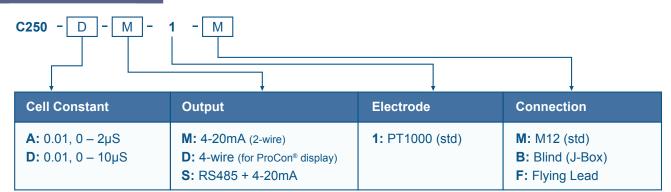


Dimension



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

Model Selection



ProCon[®] — C250 Series



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



Corrosion-Free Instrumentation Equipment

Industrial Analytical Equipment

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	ייך	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







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