





Specifications

Power Supply	9 – 36VDC			
Sensor Electrode Material	Graphite + PPMA			
Housing Material	PP			
IP Rating	IP68			
Measurement Range	0 – 500,000µS			
Accuracy	±1% of Reading			
Pressure Resistance	100 Psi			
Temperature Compensation	PT1000 (Std)			
Temperature Range	14 – 176°F -10 – 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 "			

- Eliminate Costly Conductivity Module
- O Direct 4-20mA & RS485 Outputs
- Temperature Compensated
- High Accuracy
- Factory Calibrated
- 4-Electrodes
- **⊘** Conductivity | TDS | Salinity | Resistivity
- Optional Local Display c/w High/Low Alarm Set-points

Four graphite + PPMA electrodes in one tough sensor — High performance with industrial strength

The ProCon® C554 series quadruple electrode conductivity sensor has been proven to operate seamlessly in industrial applications up to 500,000µS/cm.

Industrial environments can be harsh, featuring corrosive substances and fluctuating temperatures. The ProCon® C554 series conductivity sensor transmitter is built with durability in mind. Constructed from rugged materials such as graphite, PPMA, 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® C554** by name to be sure you are getting a genuine **Icon Process Controls** product.

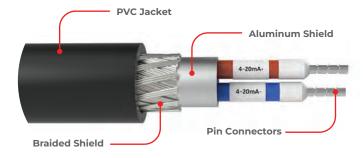






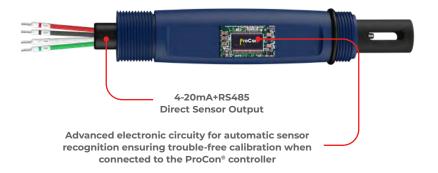


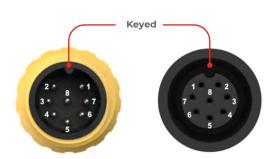
Wiring



RS-485 Modbus RTU







M12 Connection
(No Internal Wiring Required)

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.



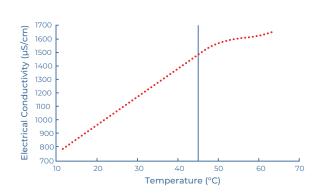
IO-Link (No Internal Wiring Required)



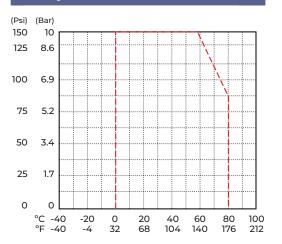




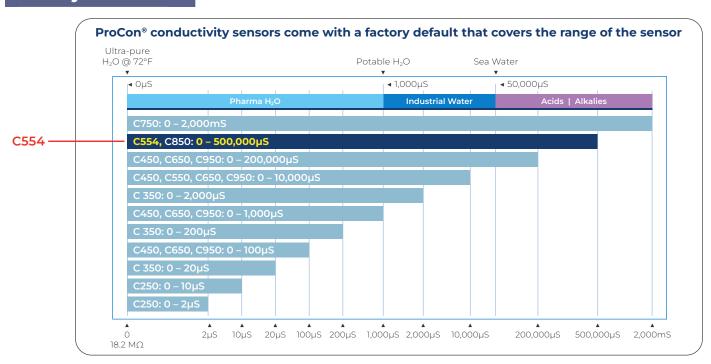
Temperature Effects



Temperature vs. Pressure



Factory Calibrated



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
Toroidal	C750	0 – 2,000mS

Typical Applications

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

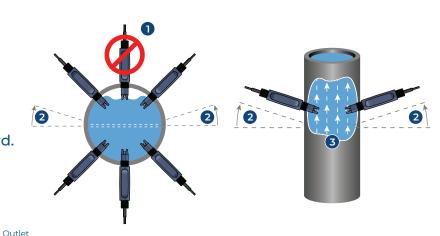


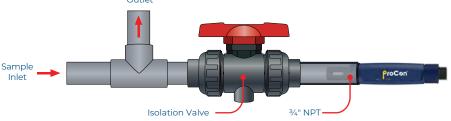




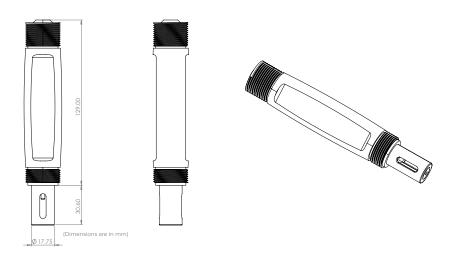
In-line Mounting

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





Dimension



Model Selection

C554 — 4-Pole Graphite Conductivity Sensor							
Part Number	Material	Output	Cell Constant	Range	Connection		
C554-R-D-1-M	Graphite, PPMA	4-wire (for ProCon® Display)	0.4	0-500,000µS	M12		
C554-R-M-1-M	Graphite, PPMA	4-20mA (2-wire, std)	0.4	0-500,000µS	M12		
C554-R-S-1-M	Graphite, PPMA	RS485 + 4-20mA	0.4	0-500,000µS	M12		

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







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	1"	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







