

Inline CONDUCTIVITYMETER

ETRANS –PTCond Datasheet



Precise Measurement,
Ultimate Control

www.enelean.com

Inline Conductivity Meter

MODEL PTCond



Application Areas

Water & Salt Water Networks
Food Production & Transfer Lines
Alcohol & Beverage Measurement
Chemical Fluids & Solvents
Fuel Transfer & Consumption Monitoring
Industrial Automation Integration (PLC/SCADA)

Features

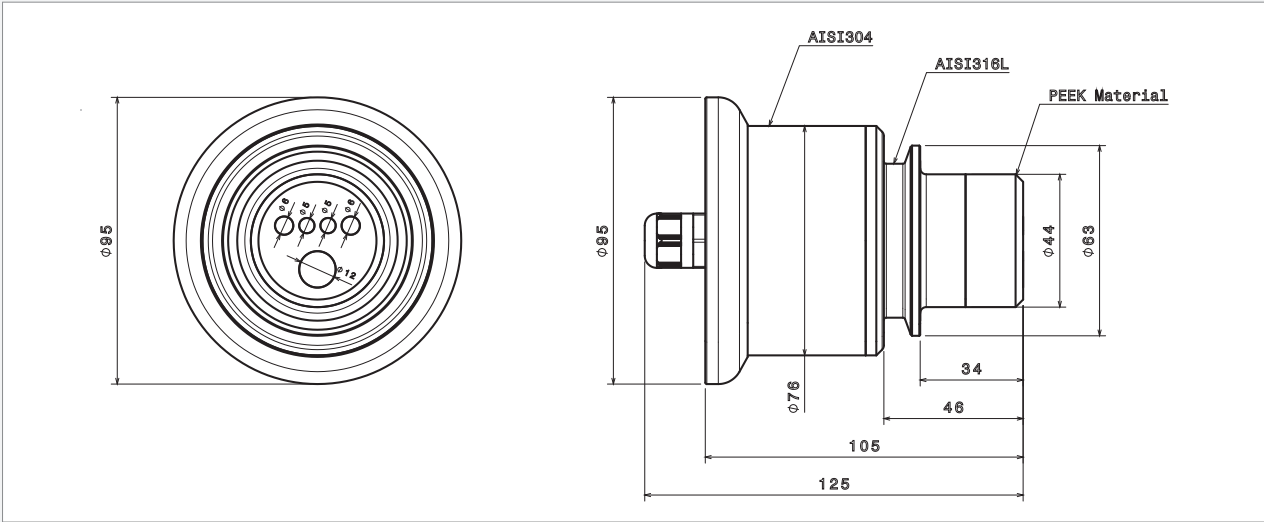
- Fast, accurate and reliable measurement
- Support Modbus RTU RS485 protocol in order to communicate with central controllers such as PLCs
- It can be used in Clear-In-Place (CIP) processes to control the amount of Acidity and alkalinity
- Robustness against environmental electrical and mechanical noises
- It can be used in almost all industrial solutions
- It can be installed on both pipes and tanks
- Support customization according to the user requirements
- One year guarantee and ten years after sale services

Description

PTCond is a uniquely designed industrial-grade inline conductivity sensor that offers greatly improved range, accuracy and stability with anti-interference capabilities. A built-in transmitter supports digital signal communication using Modbus RTU RS485 protocol, designed to simplify on-site installation, calibration and operation. PTCond contains four electrodes allowing the sensor to be less prone to fouling and deposition. This sensor maintains conductivity accuracy and precision – without the need of frequent calibrations – within a 1.5% $\mu\text{S}/\text{cm}$.



Diameters



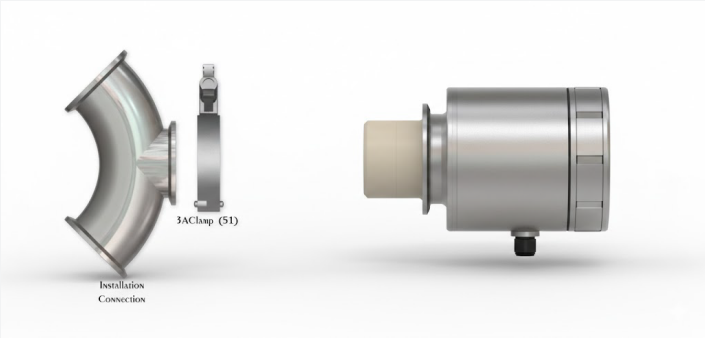
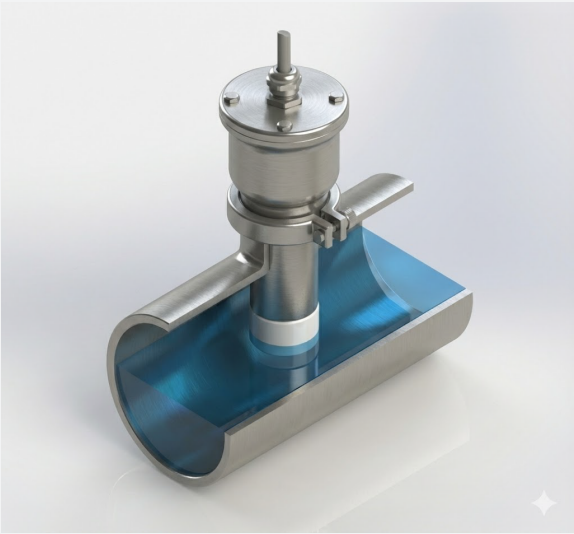
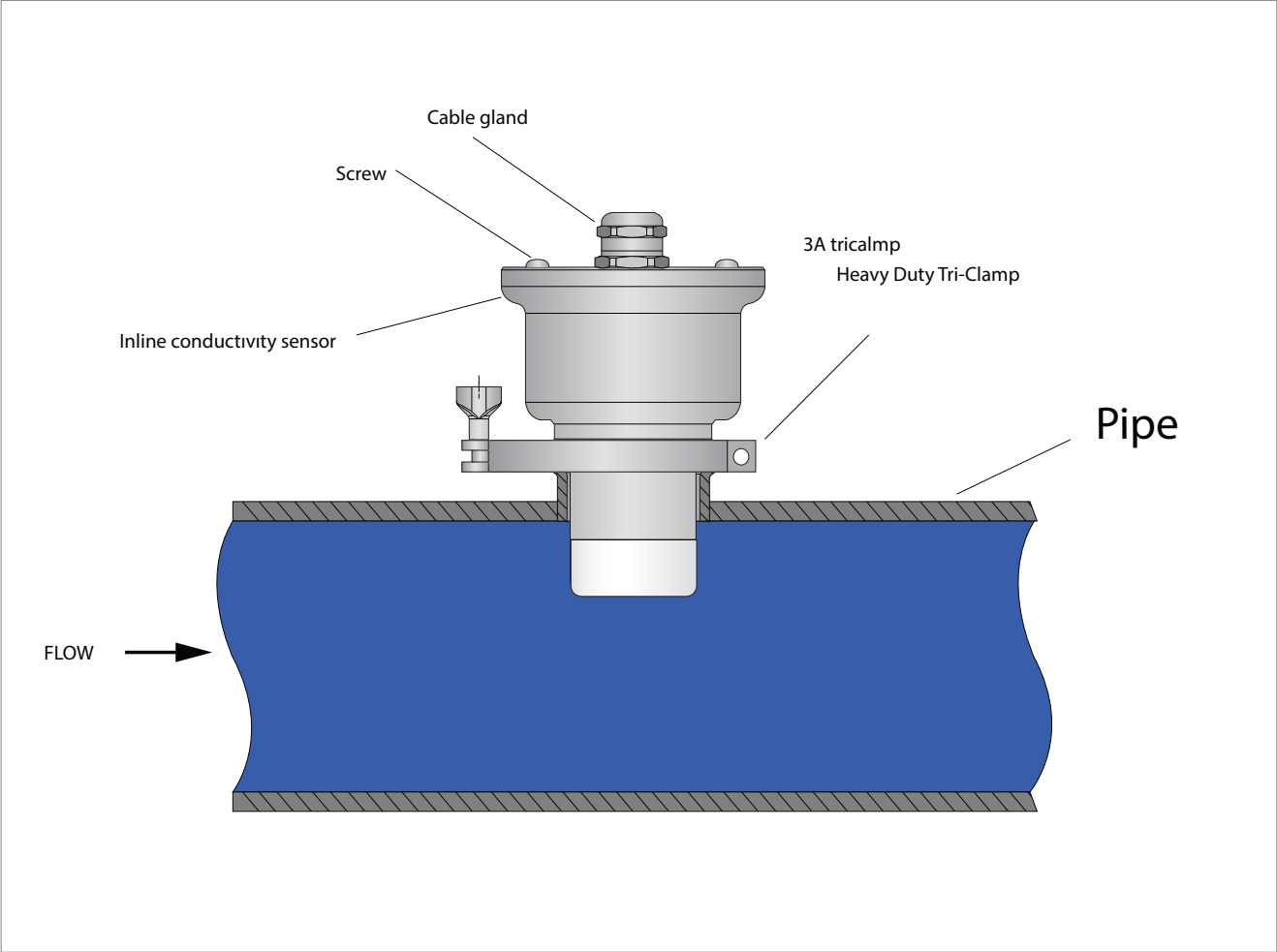
Transmitter Specifications

Maximum Process Temperature	130°C
Mounting Connection	3A Clamp, Flange, Nut, ...
Protection Enclosure	IP67 protection class
Electrode Material	Titanium
Housing Material	AISI 304 Stainless Steel
Head Material	AISI 316L Stainless Steel / Glass-filled Peek
Power	22~26 Vdc / 100-240 Vac, 500mA
Display/Transmitter Models	128*64 Pixel LCD STN Screen/With Display, HMI/Without Display
Conductivity Range	0 ~ 500 mS/cm
Measurement Units	mS/m, mS/cm, μ S/m, μ S/cm, S/m, S/cm
Accuracy	$\pm 0.3\%$ Full Scale
Analog Outputs	Two units 0/4 ~ 20mA programmable (max. 1Kohm)
Digital Outputs	Two units programmable
Digital Inputs	Two units programmable
Serial Output	One Modbus RTU RS485
USB Port	Available on HMI Display Model
Data Logger	10000 samples on HMI display model (EC and temperature)

Inline Conductivity Meter MODEL PTCond



Structure



Contact us

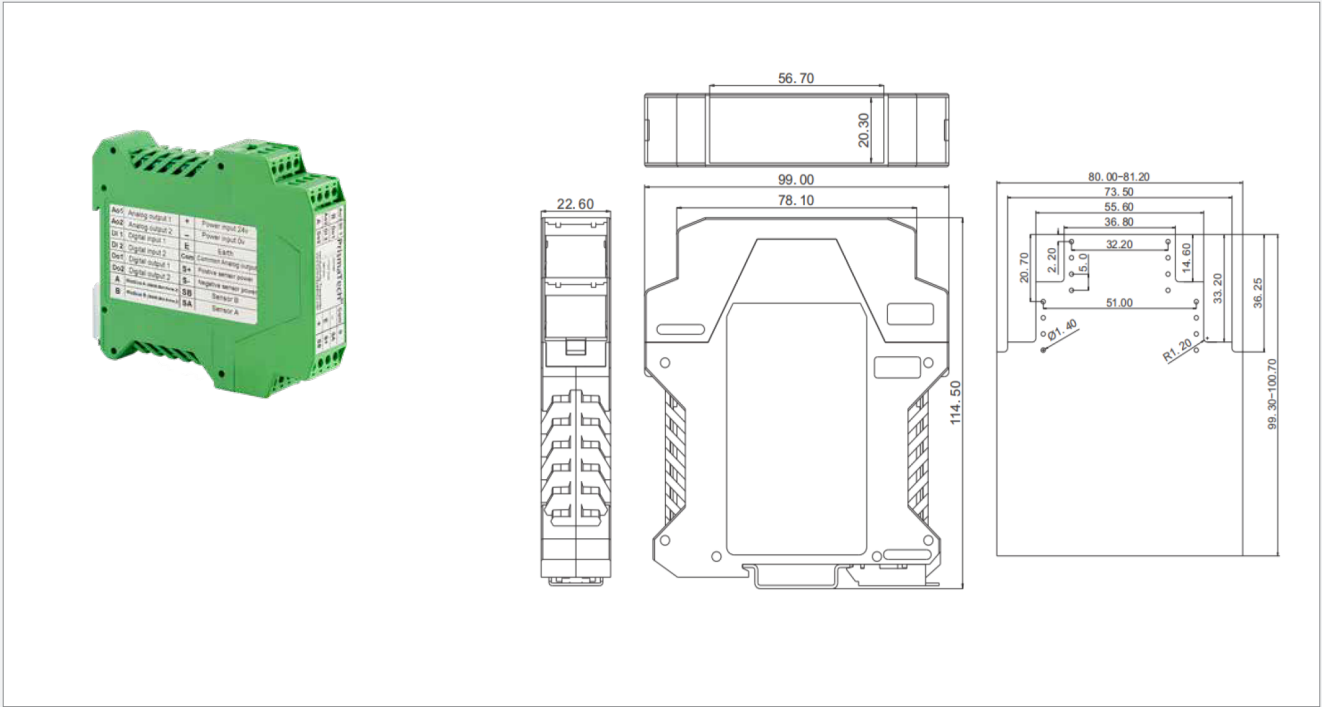
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Transmitter dimensions



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