DIGITAL CONDUCITIVITY PROBE

General features

– Reliable conductivity measurement using graphite electrodes
– Conductive measuring method with two electrodes and temperature compensation
– PVC sensor body and graphite electrodes
– No mechanically moving parts
– Immediate installation and easy manteinance
– MODBUS RTU serial communication protocol

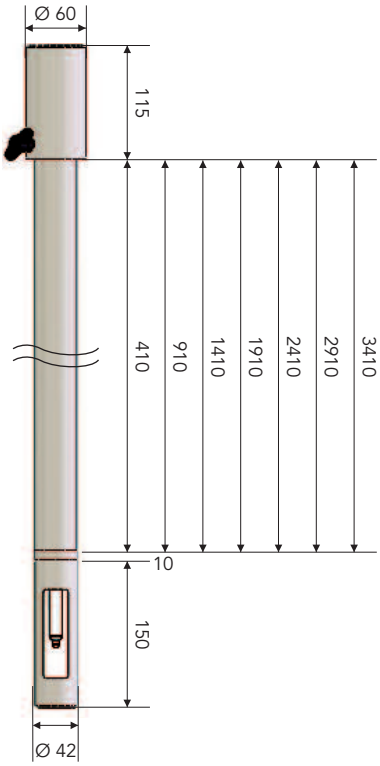
Applications

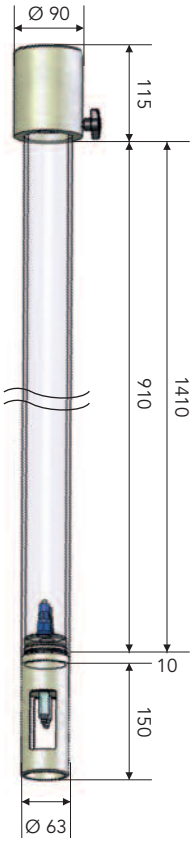
Untreated water, drinking water, demineralization, reverse osmosis, ion exchanger, water from conditioning systems and boilers, artesian wells

Technical specifications

Measuring range	0.00...20/ 200/ 2000/ 20000 µS
Measuring method	conductive with two electrodes
Resolution	0.01/ 0.1/ 1/ 10 (range 0...20/ 200/ 2000/ 20000) µS
Accuracy	± 2.5 % of full scale
Response time	90% of the value in less than 60 seconds
Refresh time	T_{90} < 60s
Temp. compensation	via internal NTC (external NTC optional)
Operating temperature	0…50 °C
Maximum pressure	10 bar
Body material	PVC
Electrode	Graphite
	The probe is completely resinate inside
Mechanical protection	IP68 Sensor + cable
Power supply	12…24Vdc
Power consumption	max. 2W
Cable	10m integral (other on request) – 10m disconnectable cable
Equipotential contact	for solution included
Signal interface	RS 485 Modbus RTU Protocol

IMMERSION PROBEHOLDERS





Immersion probeholder for single D42 Electrode

Immersion probeholder for two D63 Electrodes

Immersion probeholder for three D63 Electrodes

Materials

- Polypropilene (PP) body
- Nylon fixing screw
- NBR O-Rings

Working Temperature

- max 80 °C

Available lengths

- See drawing

Immersion probeholder with KCl tank

Immersion probeholder for two D12 electrodes and KCl tank

Materials

- Plexiglass tube
- Polypropilene (PP) protection and cap
- Nylon fixing screw
- NBR O-Rings

Working Temperature

- max 80 °C

Available lengths

- See drawing

The Plexiglass tube/tank allows to constantly verify the KCl quantity