The porous liquid junction resists fouling and chemical attack. The double junction of the reference electrode increases the operating life in applications containing sulphides (H2S) and metals such as lead, mercury and silver.

The new type of solid reference electrolyte allows a reference potential constant in time and at pressure and temperature variations.

The new capillary temperature sensor design places the Pt100 behind the (pH or ORP) sensitive membrane for accurate temperature compensation and measurement.

The mechanical protection IP68 protects the high impedance signal of the electrodes from moisture that can be generated in immersion applications (condensation).

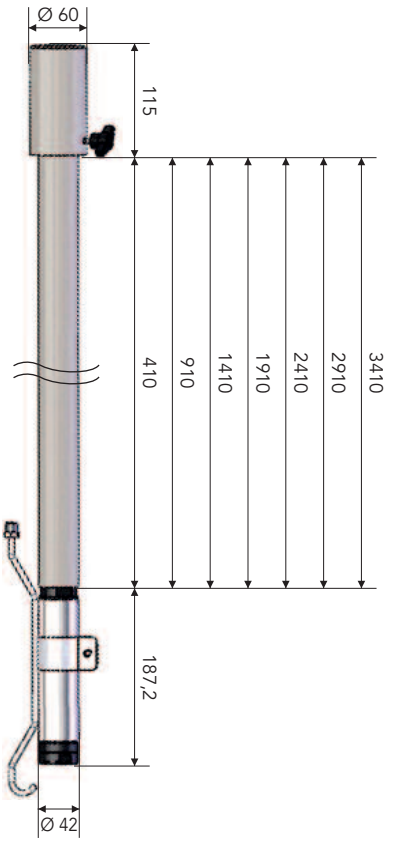
Applications

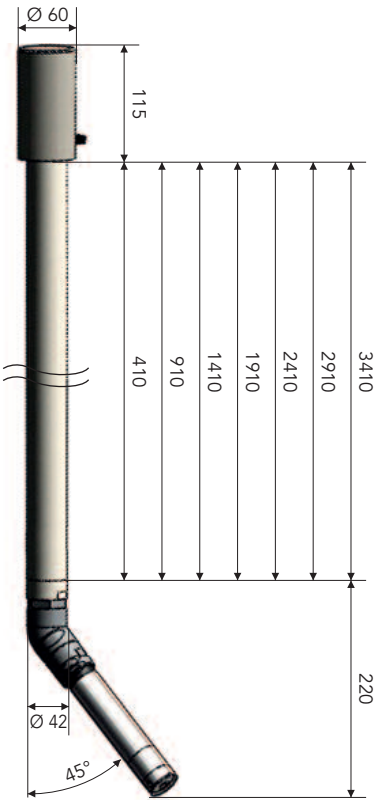
Drinking water, process water, wastewater, samples containing sulphides and metals such as mercury, lead and silver.

Technical specifications

Measuring range	0…14 pH
Measuring method	Potentiostatic
Accuracy	0.05 pH
Repeatability	± 0.05 pH
Response time	T_{90} < 60s
Operating temperature	0…80 °C in insertion/by-pass – 0…50 °C in immersion
Maximum pressure	6.9 bar
Body material	Ryton® and PVC
Measuring electrode	hemispherical glass membrane
Other materials	Teflon®, carbon, epoxy
Mechanical protection	IP68 Sensor + cable
Power supply	12…24Vdc
Power consumption	max. 2W
Cable	10m integral with the sensor (other on request)
Signal interface	Modbus RTU Standard Protocol

IMMERSION PROBEHOLDERS





Immersion probeholder for turbidity/suspended solids probes

Materials

- Polipropilene (PP) Tube and cap
- Nylon fixing screw
- NBR o-Rings

Working Temperature

- max 80 °C

Available lengths

- See drawing

Immersion probeholder for Oxygen probe and pH and redox digital/differential electrodes

Materials

- Polipropilene (PP) Tube and cap
- Nylon fixing screw
- PVc 45° Fitting
- NBR o-Rings

Working Temperature

- max 80 °C

Available lengths

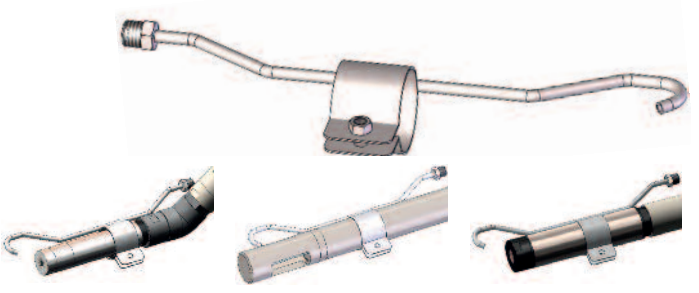
- See drawing

nozzle for immersion probes' cleaning

Materials

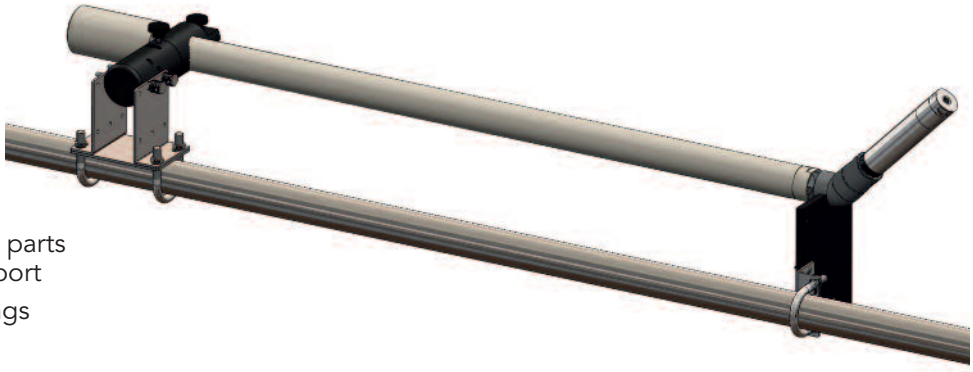
- SS316 tube
- SS316 nozzle
- SS316 fittings and nuts

The washing conduit is connected to the nozzle via the ¼"BSP male threaded fitting The system can be adapted to all Chemitec immersion probes and probeholders.



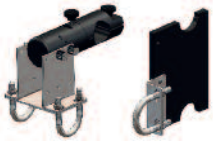
INSERTION PROBEHOLDERS

Articluated support for probeholders



Materiali

- Black PVC Articulated parts and probeholder support
- SS316 plates and fixings
- SS316 fixing screws



Suitable for chemitec Diameter 42 probeholder supporting, the articulated support is able to rotate and tilt around the X and Y axis, allowing a remarkable possibility of configurations.

Pressurized Probeholders

The pressurized Probe holders are used to insert the electrode directly into process pipe lines.

The Probe holder must be placed between two isolation valves to prevent lack of process liquid during maintenance operations.

Insertion probeholders

Connection	½" G.M.	1"G.F.	¾" or 1"1/4 G.M.
Probe connection	PG 13.5 or Ø 12mm	PG 13.5	PG 13.5
Maximum Temperature	60° C	60 °C	80 °C
Maximum Pressure	7 bar	16 bar	16 bar
Materials	PVC	PP and PVC	PP

BYPASS PROBEHOLDERS

By-pass probeholder

The electrode/sensor installed in remains always immerged in the liquid to guarantee stable and accurate measures.

Applications

- Wastewater
- Drinking water
- Cooling towers
- Reverse osmosis
- Irrigation

Technical data

Input/Output	8x12 mm (tube)
Probe connections	PG 13,5mm, 42mm, 35mm, 24mm
Head Material	Black PP
Wessel Material	Transparent PMMA / Black PP
Pressure range	1 bar at 50 °C 2 bar at 40 °C
Control sensor	Reed flux at 0,5 bar of min. pressure
pH range chemically compatible	4,0…10 pH transparent body
	2,7…12 pH black body

A

- Bypass probeholder for three (3) probes diameter 12 mm
- Pressure up to 2 bar
- Temperature up to 50 °C
- Transparent wessel
- pH range 4,0…10 pH

Probe types

- pH and redox 12 mm
- pH and redox 13.5 mm
- Temperature 12 or 13,5 mm
- Conductivity 12 or 13.5 mm
- Oxygen 13,5 mm

A1

- Bypass probeholder for three (3) probes diameter 12 mm
- Pressure up to 2 bar
- Temperature up to 50 °C
- Black wessel
- pH range 2,7…12 pH

Probe types

- pH e Redox 12 mm
- pH e Redox 13.5 mm
- Temperature 12 or 13,5 mm
- Conductivity 12 or 13.5 mm
- Oxygen 13,5 mm

B1

- Bypass probeholder for one (1) probe diameter 35 or 42 mm
- Pressure up to 2 bar
- Temperature up to 50 °C
- Black wessel
- pH range 2,7…12 pH

Probe types

- Torbidity 42mm
- Oxygen 35mm