114CH

Digital high conductivity sensor

Measurement accuracy ≤4% on the reading point

Four-electrode measurement method with temperature compensation

Measurement range from 1µS / cm to 200mS / cm
Max. operating temperature 100 ° C

Maximum pressure 5 bar

Measurements transmission via RS485

MODBUS RTU digital communication

Combine with MCA800 control unit

The 114CH sensor, connected to the MCA800 unit, is used for conductivity measurement in waste, industrial and recirculating water.Reliable 4-electrode conductive measurement method thanks to the use of graphite electrodes with compensation of temperature.

Technical Feature

Materials
Electrode body in Epoxy and PPS
PPS probe holder
Viton® O-ring
Graphite electrodes
Probe holder thread
¾ ”NPT male
Probe threads
PG13.5 male
Measurement intervals
1µS / cm to 200mS / cm (K = 0.55 nominal)
Measurement method
conductive with 4 electrodes
Calibration method
on 1 point or 2 points with certified standard conductive solutions
Accuracy
≤4% on the reading point

Resolution
1µS / cm
Repeatability
≤0.2% on the measuring point
Response time
5s
Maximum refresh time
1 second
Operating temperature
-5 ÷ 100 ° C in non-frozen water
Maximum operating pressure
5 bar
Temperature sensor
PT100

Electric absorption
<250mW
Mechanical protection
IP68 Sensor + cable
Cable length
10m integral with the sensor (others on request)
Powe supply
12÷24Vdc
Protocol
MODBUS RTU
Dimensions (LxHxP)
27x213x27mm

114CH High conductivity digital sensor

For the connection to MCA800 via MODBUS RTU
PPS and Epoxy electrode body
PT100 temperature sensor built-in
Measuring range: 1 µS/cm - 200 mS/cm
Resolution: 1 µS/cm - Accuracy: 4%
Operating temperature:-5 ÷+ 100°C (212°F)
Max operating pressure: 5bar
Thread: PG 13.5 M
Mechanical protection: IP68 sensor+cable

	Cable length	
	1	Standard 10m
	9	Special
	Probe holder	
	A	Electrode protection in PPS - Thread 3/4" NPT M on both sides L= 213mm
	B	Immersion style in PP. Dim.: (Ø x l) 42 x 570 mm.
	C	Immersion style in PP. Dim.: (Ø x l) 42 x 1070 mm.
	D	Immersion style in PP. Dim.: (Ø x l) 42 x 1570 mm.
	E	Immersion style in PP. Dim.: (Ø x l) 42 x 2070 mm.
	F	Immersion style in PP. Dim.: (Ø x l) 42 x 2570 mm.
	G	For by-pass installation - 2 bar max., 40 °C, transparent beaker in PMMA. Inlet-Outlet dim. 8x12mm (SP517A)
	Z	Special
	Accessories	
	0	None
	1	Kit for automatic electrode rinsing (SP515P) - SS body (only for immersion probe holders)