114C
Digital conductivity sensor

Measurement accuracy ± 0.5µS to ± 500µS
Two-electrode measurement method with temperature compensation.
Measurement range from 20µS to 20000µS
Max operating temperature 50 ° C
Max pressure 10 bar
Measurement transmission via RS485
MODBUS RTU digital communication
Combine with MCA800 control unit

The 114C sensor, connected to the MCA800, is used for conductivity measurement in pure and process water.
Reliable two-electrode conductive measurement method thanks to the use of graphite electrodes with temperature compensation.

Technical Feature

Materials
Probe body in PVC
Graphite electrodes
Threads
1” GAS BSP
Measurement intervals
0.0 µS to 20,000 µS
Method of measurement
conductive with two electrodes
Calibration method
on 1 point with certified standard conductive solutions
Accuracy
± 0.5 µS f.s 20 µS
± 5 µS f.s 200 µS
± 50 µS f.s 2000 µS
± 500 µS f.s. 20000 µS

Resolution
0.01 µS f.s 20 µS
0.1 µS f.s 200 µS
1 µS f.s 2000 µS
10 µS f.s. 20000 µS /L
Repeatability
± 0.1 µS f.s 20 µS,
± 0.5 µS f.s 200 µS,
± 5 µS f.s 2000 µS,
± 50 µS f.s. 20000 µS mg/L
Response time
T90<60s
Maximum refresh time
<1 second
Operating temperature
0÷50 °C
Maximum operating pressure
10 bar

Electric absorption
2W
Mechanical protection
IP68 Sensor + cable
Cable length
10m integral with the sensor (others on request)
Power supply
12÷24Vdc
Protocol
MODBUS RTU
Temperature Compensation
With internal NTC sensor
Diameter of the luminophore
10mm
Dimensions (LxHxP)
33x220x33mm

114C Conductivity digital sensor

For the connection to MCA800 via MODBUS RTU
Method of measurement: with two conductive electrodes
NTC temperature sensor built-in
PVC body - Graphite electrodes
Measuring range: 0.00...20/200/ 2000/ 20000 µS
Resolution: 0.01/ 0.1/ 1/ 10 (range 0...20/ 200/ 2000/ 20000) µS
Accuracy: ± 2.5 % f.s.
Operating temperature: 0÷50°C (122°F)
Thread: 1"G
Mechanical protection: IP68 sensor+cable

	Cable length	
	1	Standard 10m
	9	Special
	Immersion probe holder	
	A	None
	B	PP body. Dim.: (Ø x l) 63 x 570 mm. With terminal flange for electrode protection.
	C	PP body. Dim.: (Ø x l) 63 x 1070 mm. With terminal flange for electrode protection.
	D	PP body. Dim.: (Ø x l) 63 x 1570 mm. With terminal flange for electrode protection.
	E	PP body. Dim.: (Ø x l) 63 x 2070 mm. With terminal flange for electrode protection.
	F	PP body. Dim.: (Ø x l) 63 x 2570 mm. With terminal flange for electrode protection.
	Z	Special
	Accessories	
	0	None
	1	Kit for automatic electrode rinsing - SS body