164CU

Suspended solids turbidity sensor

Sensor for optical measurement of suspended solids in industrial and process waters up to 30 g/l.
Measurement accuracy ± 0.3gr/l
Light absorbing measurement method
Measurement range 0 ÷ 30 gr/l
Max operating temperature 50 ° C
Max pressure 4 bar
Measurement transmission via RS485
MODBUS RTU digital communication
Combine with MCA800 control unit

The 164CU sensor, connected to the MCA800, is used for the optical measurement of suspended solids in industrial and process water up to 30 g / l.
The probe uses the light absorbing measurement method.

Technical Feature

Materials
Body in AISI 316 (optional in PVC)
Windows in epoxy resin
OR in Viton
Threads
1” GAS
Measuring ranges
0-30 gr/l
Method of measurement
Absorption of light
Dimensions (LxHxP)
42x231x42mm

Calibration method
by points
Accuracy
± 0.3 gr/l
Resolution
0.1 gr/l
Repeatability
± 0.5 gr/l
Response time
T90<60s
Operating temperature
0÷50 °C

Maximum operating pressure
4 bar
Electric absorption
3W
Mechanical protection
IP68 Sensor + cable
Cable length
10m integral with the sensor
Power supply
12÷24Vdc
Protocol
MODBUS RTU

164CU Suspended Solids digital sensor

For the connection to MCA800 via MODBUS RTU
Measuring principle: light absorption, infrared pulse light method
Measuring range: 0÷30 g/l normal sludge
Resolution: 0.1 g/l - Accuracy: ± 0.3 g/l
Operating temperature: 0÷50°C (122°F)
Thread: 1"G
Mechanical protection: IP68 Sensor+cable

	Sensor material	
	1	PVC
	2	SS316
	Installation method	
	A	Immersion
	B	Insertion (with probe holder H)
	Cable length	
	1	Standard 10m
	9	Special
	Probe holder	
	A	None
	B	Immersion style - PP material. Dim.: (Ø x l) 42 x 570 mm
	C	Immersion style - PP material. Dim.: (Ø x l) 42 x 1070 mm
	D	Immersion style - PP material. Dim.: (Ø x l) 42 x 1570 mm
	E	Immersion style - PP material. Dim.: (Ø x l) 42 x 2070 mm
	F	Immersion style - PP material. Dim.: (Ø x l) 42 x 2570 mm
	H	Insertion style - Ball valve assembly DN40 with safety lock, stainless steel material, Viton O-ring
	Z	Special
	Accessories	
	0	None
	1	Kit for automatic electrode rinsing - SS body (only for immersion probe holders)