

VisiWater DO Arc 120 FC10

Specification Sheet (Part# 243650)



The VisiWater DO sensors are intended for the measurement of dissolved oxygen (DO) in water application. It comes with integrated opto-electronics, having the full functionality of a measuring device with self-diagnostics. The VisiWater DO sensor requires less maintenance than a classical oxygen sensor as it does not have a mechanically sensitive membrane or a corrosive electrolyte.

Product Specifications

Measurement Principle	Oxygen dependent luminescence quenching
Measuring Range	4 ppb to 40 ppm (DO) or 0.1 to 1000 mbar (pO ₂)
Oxygen Consumption	None
Required Flow	None
Response Time	< 30 s at 25 °C, from air to nitrogen
Temperature Sensor	NTC 22 kOhm
Drift at Room Temperature	< 1 % per week
Configurable Values	DO: mbar; %-sat; %-vol; µg/l; mg/l; ppb; ppm; Temperature: °C
Process Temperature	0 to 60°C
Pressure Range	0 to 12 bar
O-ring Material	EPDM (FDA approved)
Surface Quality of Steel	Ra < 0.4 µm (N5)
Protection Rating	IP 68
Certificate	Yes, 3.1 certificate with heat number
Serial Number	Yes
Diameter	12 mm

Product Specifications

Process Connection	PG13,5
Electrical Connector	Fix cable with open end wires
Analog Interface 1	4-20 mA for DO, programmable
4-20 mA Current Range	3.5 to 22 mA
Baud Rate	4800, 9600, 19200, 38400, 57600, 115200 bd
Operating Voltage	7 to 30 VDC max. 1 W
Wetted Parts	Stainless Steel 1.4435
a-length	120 mm
Membrane / Cap	Delivered with ODO Cap H0
Accuracy at 25°C	1 ± 0.05%-vol 21 ± 0.2%-vol 50 ± 0.5%-vol 100 ± 10%-vol

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