

VisiWater DO Arc 120 FC10

Specification Sheet (Part/REF # 243650)



The VisiWater has a fixed cable making it ideal for submersible dissolved oxygen applications in the environmental water industry.

Product Specifications

Sensor Family	VisiWater
Parameter	DO (Optical)
Sensor Output	Arc: Modbus, 4 to 20 mA
a-length	120 mm
Electrical Connector	10 m Fix Cable / Open End
Measurement Principle	Oxygen dependent luminescence quenching, temperature compensation
Measuring Range	4 ppb to 40 ppm (DO) or 0.1 to 1000 mbar (pO2)
Accuracy at 25 °C	1 ± 0.05 %-vol 21 ± 0.2 %-vol 50 ± 0.5 %-vol 100 ± 10 %-vol
Drift at Room Temperature	< 1 % per week
Sensor Cap	ODO Cap H0
Oxygen Consumption	None
Temperature Sensor	NTC 22 kOhm
Configurable Values	DO: mbar; %-sat; %-vol; µg/l; mg/l; ppb/ppm (gas); ppb/ppm (dissolved oxygen); Temperature: °C, °F, K
Diameter	12 mm
Process Connection	PG13,5
Wetted Parts	Stainless Steel 1.4435 EPDM (Ethylene propylene elastomer) VMQ (Silicone elastomer)
Surface Quality of Steel	Ra < 0.4 µm (N5)
4 to 20 mA Current Range	3.5 to 22 mA
Analog Interface 1	4 to 20 mA for DO, programmable
Digital Interface	RS485 Modbus (max. 31 addresses)
Baud Rate	4800, 9600, 19200, 38400, 57600, 115200 Bd
Operating Voltage	7 to 30 VDC max. 1 W
Serial Number	Yes
Response Time	t98% < 30 s at 25 °C
Certificate	Yes, with parameter settings and materials used
Operating Temperature Range	0 to 60 °C
Pressure Range bar g	-1 to 12 bar
Protection Rating	IP 68
Required Flow	None

