

VisiWater - Optical DO Sensor

For Water and Waste Water Applications

Features

Measuring principle: phase and intensity measurement of luminescence quenching

Output can be configured for 4 - 20 mA

RS 485 output available with modbus

No electrolyte, no risk of leakage or precipitation

No polarization required

Combines within the 12 mm shaft; optoelectronics capable of high temperatures

Instant stable measurements, low drift and fast response

Replaceable sensor caps; rugged membrane withstands 12 bar pressure

No minimum flow required, because sensor does not consume oxygen

VisiWater can be directly connected to PLC/ PC via 4/20 or RS 485 output.

Integral 10M cable

Applications

Waste water treatment plants - ETP/CETP/STP

Ground water monitoring

River water monitoring

Fishing farms



Specifications

Measuring range	4ppb, 0.05% to 300% oxygen/air saturation measurement unit can be configured by software according to: - % oxygen/air saturation (% saturation) - Volume- % oxygen (Vol-%) - mg/L or ppm - µg/L or ppb
Response time	t98% = 30 sec., non-integrated in gases
Temperature range	80°C max
Pressure range	12 bar max
Mechanical interface	Standard PG 13.5
Sensor input	7 ... 30 VDC power supply
Sensor outputs	- 4 ... 20 mA linear, temperature compensated dissolved oxygen signal - Digital RS485 Modbus interface output
Shaft material	DIN 1.4435
Shaft diameter	12mm
Shaft length	120 mm
Cable	Integrated 10M cable

Features	Benefits
Fast response time	Minimal product waste in the process
Pressure and temperature the measurement	High reliability and stability of independent
Lifetime of red radiation and phase shift not affected by wear & tear, red reference LED	No need for intensive calibration thereby reducing risk of damage
No oxygen consumption	No stirring or flow control needed
Not affected by CO ₂ and H ₂ S	Demanding applications catered to
No electrolyte	No risk of leakage or precipitation and no need for complex replacement

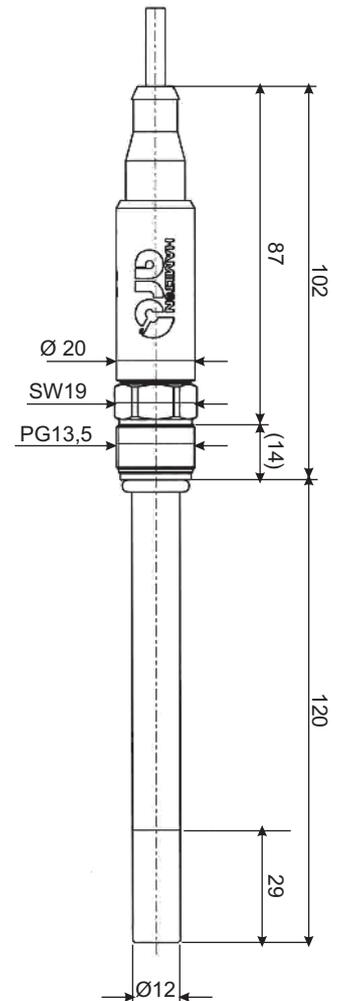
Ordering Information

Model	ITEM CODE
VisiWater DO ARC 120 FC10	HT243650

Accessories

Replaceable DO sensor cap HO	HT243515
2 mtr dip type system in PP	ZWF83400C

Dimension Details



Forbes Marshall
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Codel International
Forbes Solar
Forbes Vyncke
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