

VisiPro DO/Ex



The VisiPro DO is the optical dissolved oxygen (DO) sensor for use in explosive environment. VisiPro DO optical technology improves the measuring performance and simplifies maintenance. Improvements compared to conventional electrochemical (amperometric) sensors include flow independence, rapid start-up with no polarization time, and simplified maintenance.

With their integrated transmitter, VisiPro DO sensors enable direct communication to the process control system via 2 wire 4-20 mA standard signal or digital HART. All relevant sensor data including calibration and diagnostic information are stored in the sensor head, simplifying calibration and maintenance. Additional wireless communication directly from the sensor to your computer simplify laboratory calibration, configuration, and maintenance.



“ Did you know...
that Hamilton invented
the first optical DO sensor with
ATEX / IECEx approval? ”

Benefits

- ▶ Reliable and robust optical measurement in hazardous environments
- ▶ Easy installation with 2-wire connection
- ▶ Laboratory calibration possible with HDM
- ▶ Direct analog or digital HART communication to the process control system via 4-20 mA signal

Typical applications

- ▶ ATEX environment
- ▶ Fermentation





Specifications

Measuring range	4 ppb – 25 ppm (DO)
Measurement Principle	Oxygen dependent luminescence quenching
Process temperature	-10 – 140 °C, the sensor provides no DO reading above 85 °C
Analog interface	Two wire sink needs to be powered by external power supply
Operating voltage	18 – 30 VDC
Pressure range (relative to ambient)	-1 – 12 bar
Hygienic aspects	CIP, SIP
Surface Quality	R _a < 0.4 µm (N5)
Material	Stainless steel 1.4435
O-ring	EPDM*

Ordering Information



	a-length	M12	M12
VisiPro DO / Ex	120	243400	243420
	225	243401	243421
	325	243402	243422
	425	243403	243423

The ODO Cap has to be ordered according to the application separately.

ODO Cap H0: For general application in biotechnology, water treatment and monitoring as well as in breweries, wineries and soft drink processing.

ODO Cap H2: The ODO Cap H2 is designed for fermentation processes where sterilization in place (SIP) is performed in media containing higher amounts of lipophilic compounds. It comes with a hygienic design.

Accessories



- **ODO Cap H0 Kit** Ref 243515
- **ODO Cap H2 Kit** Ref 243505

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Housings see page [107](#)