

VisiTrace™ DO

High Performance Trace Measurement



The VisiTrace DO offers all the advantages of Hamilton's optical dissolved oxygen sensors: fast response time and easy maintenance. Improvements compared to conventional electrochemical (amperometric) sensors include flow independence, rapid start-up with no polarization time and simplified maintenance. Monitoring in low ppb ranges is essential in many applications such as brewing processes and power plants.

In Brewery oxygen is required for proper yeast growth before wort fermentation to make beer. At the end of fermentation, however, the beer is free of oxygen and highly susceptible to oxidation, which leads to stale flavors and reduces shelf life. The VisiTrace DO is designed to measure dissolved oxygen in the low ppb ranges in brewing applications, notably during filtration, and filling. In addition, the special designed ODO Cap L0 for breweries is stabilized against standard disinfectant solution with active chlorine and chlorine dioxide. This is powerful during measurements in breweries, which may not allow for calibration after every CIP.

In power plants, measurement of dissolved oxygen on boiler plants is essential if the power plant is to run efficiently, and to be cost effective, with minimum down time. Even small quantities of dissolved oxygen in boiler water will reduce the boiler life dramatically. In boilers where high chloride levels exist, the effect of oxygen corrosion is increased. Therefore, the need to monitor dissolved oxygen content in to low ppb levels is even more important.

VisiTrace DO – Wisdom From Within

With the transmitter integrated, the intelligent VisiTrace DO sensor provides more reliable measurements directly to your process control system. The micro-transmitter located in the sensor head stores all relevant sensor data, including calibration and diagnostic information, simplifying calibration and maintenance. The integrated Bluetooth 4.0 wireless interface may be used for monitoring, configuration and calibration, and saves time without compromising quality.



Benefits of the VisiTrace DO

- ▶ Measurement range 0 – 2,000 ppb
- ▶ Stable against chlorine and chlorine dioxide
- ▶ Rapid start-up with no polarization
- ▶ Flow and CO₂ independent readings
- ▶ Robust design enabling simplified maintenance
- ▶ No transmitter required



Why Choose the VisiTrace DO?



Reliable Measurement in Low ppb Ranges

- ▶ Flow and CO₂ independent
- ▶ Stable against chlorine and chlorine dioxide
- ▶ Fast response time to identify rapid changes in oxygen content

Simple Maintenance

- ▶ Robust industrial design
- ▶ Sensor cap easily replaceable
- ▶ Sensor status and self-diagnostic information



Easy Installation and Configuration

- ▶ 2 wire 4-20 mA connection
- ▶ Rapid start-up without preliminary polarization
- ▶ Laboratory calibration possible
- ▶ Wireless communication to Bluetooth 4.0 view devices

Ordering Information

Ref	Sensor	Communication	Shaft Length	Application
243560	VisiTrace DO 120	4-20 mA / Bluetooth 4.0	120 mm	Breweries: CO ₂ Recovery and Separator, Filtration and Filling Power Plants: Boiler feed water
243561	VisiTrace DO 225	4-20 mA / Bluetooth 4.0	215 mm	
Ref	Parts and Accessories		Description	
243530	ODO Cap L0		For low ppb ranges in breweries and soft drink processing	
243575	Calibration Station		Enable high precision two-point calibration with two test gases connection e.g. 1%vol. and nitrogen with 5.0 purity	
243499	Wireless Converter BT		Designed for wireless communication between HDM and VisiTrace DO sensor	
243688	View Ex Mobile Package		View Ex Mobile is a monitoring, configuration and calibration device based on Android smartphone application technology	
355283	Sensor Cable M12	3m	The Sensor Cable M12 4 Pole – open end is designed for connection to a data record, indicator, control unit or PCS (Process Control System) with analog I/Os	
355284	Sensor Cable M12	5m		
355285	Sensor Cable M12	10m		
355288	Sensor Power Cable M12		This cable includes a power adapter to supply the sensor with operation power	

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