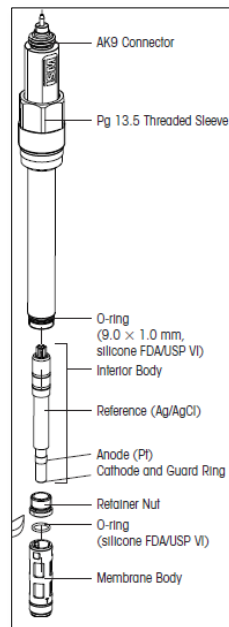


O₂

Digital O₂ – Sensor InPro 6850i in Ex-version

The oxygen sensor InPro 6850i from Mettler-Toledo stands for precise and reliable oxygen control under the hardest conditions. The modular design of the sensor allows to exchange parts of the inner body, quickly and easily. The Intelligent Sensor Management (ISM[®]) from Mettler Toledo simplifies the start-up, maintenance and offer an advanced sensor diagnostic. In the sensor head a microchip is integrated, which does the entire monitoring and control of the sensor and, beyond that, stores all sensor data. Via optional USB dongle, computer and the optional software iSense ISM[®] Asset Suite you can access on numerous sensor data and see quickly how long and whether the sensor can still be used. This provides possible predictable maintenance and reducing costs.



Powerful

- **Quick replacement of pre-calibrated sensors** on site thanks to Plug & Measure (in Zone 1+2 in accordance with the ATEX directive).
- **amperometric sensor (3-electrode technology)**
- Measurement range from 3 ppb up to O₂-saturation
- **Digital, low maintenance and high pressure resistant**
- Intelligent Sensor Management (ISM[®]) Technology simplify maintenance of the sensor

Reliable Sensor

For an improved signal stability, the anode and the reference electrode are separated (3-electrode-system).

In order to **reduce the risk of cross contamination** the sensors are **sterilizable**, and in the majority of cases **autoclavable** too

Plug & Measure

All Mlog using ISM[®]-Sensors are **replaceable on-site (simple and reliable)**. That will help you to reduce the total operating costs.

Easy Calibration

The ISM[®] sensor is easy to calibrate and the sensor data are readable via USB-dongle, computer and the free software iSenseLight or the optional ISM[®] iSense Asset Suite from Mettler-Toledo.

Technical data: Mlog O2-sensor InPro[®] 6850i

ATEX label	II 1/2 G ia IIC T6/T5/T4	
Enclosure rating	IP 68	
Wetted parts	316L stainless steel	
Dimension	Total 188 mm (7,4")	shaft 120 mm (4,72") Ø 12 mm (0,47")
Plug head	Pg 13,5 thread	
Function principle	amperometric /polarographic Clark electrode	
Temperature	Measurement:	0 °C .. + 80 °C
	Mechanical:	-5 °C .. + 140°C (+23°F...+250°F)
Pressure	Operation:	0.2...6 bar absolute
	Mech. pressure resistance	max. 12 bar absolute
Measurement range	3 ppb up to O ₂ -saturation	
Precision in water	≤± [1% + 6 ppb]	
Anode / cathode	Pt / Pt	
Reference system	Ag/AgCl	
Sensor data	Ui ≤16 V, Ii ≤30 mA, Pi ≤50 mW	
Mlog connection	Digital ISM-1wire-Bus (max. length 10m)	
intrinsically safe	ISM [®] Uo 6,6 V; Io 8 mA; Lo 100mH	
sensor connection		

Presented by:

