

AOD 2060

Dissolved oxygen analyser

Analyser for on-line and continuous measurement of dissolved oxygen.

HIGHER PERFORMANCES

Relative error : $< \pm 5\%$

Stability (1 month) : $\pm 3\%$

Repeatability : $< \pm 2\%$

OPERATION PRINCIPLE

The **AOD 2060** analyser consists of a wall-mounted enclosure connected to a measurement sensor via a 2.5 m cable with a plug and a flow chamber.

The measurement principle of the oxygen analyser is based on the use of a specific electro-chemical sensor (type HERSCH pile). The current delivered by the sensor is directly proportional to the oxygen concentration.

Thanks to its measurement principle linked to “the absence of potential difference between the electrodes”:

- The sensor is naturally independent of interfering elements present in boiler waters conditioning (complexants, re-decomposition products, hydrazine, dissolved H₂).
- The power delivered by the sensor is nil without oxygen.

Thanks to the oxygen sensor operating, the semi-automatic calibration is carried out in ambient air and with a single measurement.

The oxygen concentrations readings (3 automatically switchable measurement ranges) and temperature are presented on a large and easy to read display.

ERGONOMICS

Measurement display and clear dialogue on a large-sized screen :

- dissolved oxygen
- temperature of sample.

LOWER COSTS

No conditioning products

No management and standard solutions use

Simplified and robust hydraulic circuit

OPTIONS

Oxygen in saturation percentage

Ex IIC T6



Main characteristics

3 MEASUREMENT RANGES

0 TO 200 $\mu\text{g/l}$

0 TO 2000 $\mu\text{g/l}$

0 TO 20 mg/l

SEMI AUTOMATIC CALIBRATION

SIMPLICITY AND ROBUSTNESS

WALL-MOUNTED ENCLOSURE

WATERPROOF BOX IP65

Option : Ex IIC T6



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Oxygen Measurement					
Range	Measure	Sensitivity	Repeatability	Stability (1 month)	Response Time (90% of the signal)
1	0 to 199,9 µg/l	±0,1 µg/l	±1 µg/l or 2% lecture	±1 µg/l or 3% lecture	< 30 s
2	0 to 1999 µg/l	±1 µg/l	±5 µg/l or 2% lecture	±2 µg/l or 3% lecture	< 30 s
3	0 to 19,99 mg/l	±0,01 mg/l	±0,05 mg/l or 2% lecture	±0,02 mg/l or 3% lecture	< 30 s

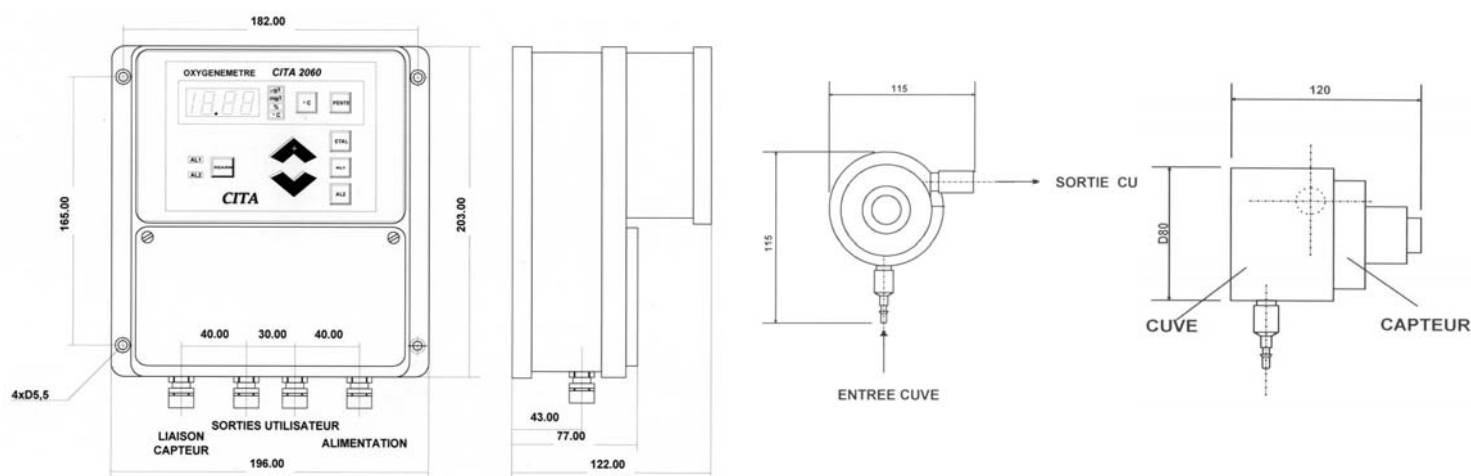
Sample water circuit	
Temperature	10°C to 60°C
Pressure	0,9 to 20 absolute bar
Flow	10 to 50 L/h

Sample temperature measurement	
Displayed on LCD display (by pressing a key)	
Measurement range	0-100°C
Accuracy	±1°C

Outputs signals	
Oxygen measurement voltage output	Voltage 0-1,999V for 0-100% of selected range
Oxygen measurement power output	Current 4-20mA for 0-100% of selected range Charge max. 300Ω Logarithmic log(O ₂) 0-4V for 1 to 10.000 µg/l
Temperature	Voltage output 0-1,00V for 0-100 °C (10 mV/°C)
Alarms	2 alarm contacts (Voltage max. 200V _{DC} /250V _{AC} Power max. 1A Capacity breaking 30W/50VA) for 2 adjustable threshold (HIGH-LOW). Front panel led indication.

Power supply	
Alternative sector	110V/230VAC ±15%, 50/60 Hz - < 10 VA
	Fuse protection in the compartment connector block. Protection and anti-interference filter built-in sector.

Miscellaneous	
Terminal block connections	
Ambient operating temperature	0° to 45°C
Enclosure protection	IP 65
Dimensions	200 x 120 x 200 mm
Weight	<1,5 kg



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