

WATERPROOF OXYGEN METER CO-411A

- Designed for measurement of oxygen in the air in % and temperature.
- Low weight and small size make working in the field easier.
- Waterproof housing (IP-66) facilitates working in difficult conditions.
- Meter co-operates with COG-3Atz sensor with built in KE-LF25 oxygen sensor and temperature sensor.
- 1 point calibration (in the air)
- Memory of 50 results.
- Automatic switch off function.
- 24 months of warranty for the meter.
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Sensor characteristics

- The sensor is maintenance free, doesn't require membrane nor electrolyte replacing.
- Lifetime expectancy of the sensor – 5 years in standard conditions.
- Sensor, after damage or use up, may be replaced by the user.
- May be used in atmosphere with presence of other gases, details given in the table.
- Standard cable length 1m, on order it may be changed.

SENSOR'S PARAMETERS

Parameter		Model KS-25LF
Measuring range		0 ÷ 30% O ₂
Accuracy after calibration		± 1% of full scale
Work conditions	Atmospheric pressure	811 hPa ÷ 1216 hPa
	Temperature	5 ÷ 40°C
	Relative humidity	10 ÷ 80% RH without condensation
Response time (T90%)		about 15 s
External size of the housing		Φ = 35 mm, L = 75 mm
Storing conditions	Temperature	-20°C ÷ 60°C
	Relative humidity	0 ÷ 100% RH
	Pressure	507 ÷ 1520 hPa

In the environment temperature down to -10°C sensor stops working but is not freezing, below -20°C it will be damaged.

**INFLUENCE OF DIFFERENT GASES ON THE SENSOR
(ACCORDING TO MANUFACTURER)**

Type of the gas	Concentration	Influence on O ₂ measurement
Carbon dioxide	100,00%	No influence
Hydrogen	100 ppm	No influence
Hydrogen sulfide	50,3 ppm	No influence
Nitric oxide	467 ppm	No influence
Nitrogen dioxide	517 ppm	+0,1 O ₂
Sulphur dioxide	46,6 ppm	No influence
Ammonia	1,00%	No influence

Temperature sensor: Pt-1000B platinum resistor

Accuracy in the range 0 – 40°C: ±0.5°C

TECHNICAL DATA OF THE METER

Sensor calibration	1 point in the air
Accuracy (±1 digit)	±0.1%*
Memory	50 results
Dimensions (mm)	L=149 W=82 H=22
Weight	220g
Power	9V battery optionally 12V / 100 mA power adapter
Connector	multi-pin

* Final accuracy is a sum of meter and sensor errors.

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