



RS485 Detector with electrochemical sensor for oxygen (O₂). Developed exclusively for its use with EUROSONDELCO and SIEMENS CC62P.

EUROSONDELCO detectors for Oxygen using electrochemical technology have been designed for closed areas. The excess or lack of Oxygen in air can cause in the human being from euphoria to death.

Their main applications are: cellars, food processing, grain storage, greenhouse, incubators, mining, nuclear industry, oil rings and sewage industry.

The lack of Oxygen at work places may cause anoxia symptoms.

TECHNICAL CHARACTERISTICS

Technology	Microprocessor 8 bits and electrochemical sensor
Voltage	From 9V to 15V DC
Consumption	8mA
Measurement range	From 0 to 25%
Resolution	±0,25%.
Reproductiveness	0,5% bottom of scale
Linearity	Linear in all the scale
Calibration gas	Precise mixture O ₂ - N ₂ at 25% 250 ml / min
Sensor life expectancy	2 years in normal working conditions
Relative Humidity	From 15% to 90% (continuous) & from 0% to 99% (intermittent).
Atmospheric pressure	±10%.
Working temperature	From -15°C to +50°C
Time response	T95 < 15 s.
Cable entry	PG9 syntec cable gland IP67 self-blocking.
Communication	RS485 addressable (1 to 16).
Protection grade	IP65
Presentation	Sealed box Makrolon
Weight (gr) & Dimensions (mm)	325 / 120-150-63
Height of installation	1,7 - 2 m from floor
Coverage	100 m ² (recommended).

EURODETECTORS HAVE BEEN DESIGNED FOR EUROSONDELCO,
THE DETECTION SYSTEM FOR TOXIC AND EXPLOSIVE GASES DESIGNED BY DURAN ELECTRONICA

DURAN ELECTRONICA CALIBRATES ALL DETECTORS USING TARGET GAS

AVAILABLE GASES

	CO	NO ₂	O ₂	H ₂ S	NO	CL ₂	SO ₂	HCl
Voltage supply from 9V to 15V DC	✓	✓	✓	✓	✓	✓	✓	✓
Consumption at 12V DC & 15mA (alarm)	8mA	8mA & 15mA (alarm)	8mA	8mA	8mA	8mA	8mA	8mA
Measurement range	0 - 400 ppm	0 - 20 ppm	0 - 25%	0 - 200 ppm	0 - 200 ppm	0 - 100 ppm	0 - 200 ppm	0 - 100 ppm
Resolution	±2 ppm	±0.1 ppm	±0.25 %	±1 ppm	±1 ppm	±1 ppm	±1 ppm	±1 ppm
Reproductiveness (bottom of scale)	1%	0.5%	0.5%	2%	2%	2%	2%	2%
Limit of detection	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Max. concentration	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Linearity Linear in full scale	✓	✓	✓	✓	✓	✓	✓	✓
Calibration gas (recommended)	Precise mixture 200 ppm CO+N ₂ 150 ml / min.	Precise mixture 10 ppm NO ₂ +N ₂ 1000 ml / min.	Precise mixture O ₂ + N ₂ al 25% 250 ml / min.	Precise mixture 20 ppm 400 ml / min.	Precise mixture 20 ppm 400 ml / min.	Precise mixture 20 ppm 1000 ml / min.	Precise mixture 20 ppm 400 ml / min.	Precise mixture 20 ppm 1000 ml / min.
Useful life (MTBF)	4 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years
Long time stability	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Humidity range	✓	✓	✓	✓	✓	✓	✓	✓
15% to 90% (continuous)								
0% to 99% (intermittent)								
Pressure limits ±10%	✓	✓	✓	✓	✓	✓	✓	✓
Working temperature -20°C a +50°C	✓	✓	✓	✓	✓	✓	✓	✓
Response time	T90 < 40s	T90 < 40s	T95 < 15s	T90 < 30s	T90 < 10s	T80 < 60s	T90 < 25s	T90 < 120s
Stabilisation time	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Protection grade IP65	✓	✓	✓	✓	✓	✓	✓	✓
Height of installation (approx.)	1,8-2 m from floor	1 m from floor	1,7-2 m from floor	1,5 m from floor	1,5 m from floor	30 cm from floor	30 cm from floor	1 m from floor
Coverage (approx.)	200 m ² (1)	200 m ²	100 m ²	100 m ²	150 m ²	100 m ²	100 m ²	100 m ²
Weight (gr)	325	325	325	325	325	325	325	325
Dimensions (mm)	120x150x63	120x150x63	120x150x63	120x150x63	120x150x63	120x150x63	120x150x63	120x150x63

(1) According to current standard n/a: Non applicable