



RS485 Detector with electrochemical sensor for sulphur dioxide (SO₂). Developed exclusively for its use with EUROSONDELCO and SIEMENS CC62P.

Sulphur Dioxide (SO₂) is a toxic, colourless, non flammable gas, with penetrating odour and liquefied under pressure at environmental temperature. In contact with the environmental humidity it becomes sulphuric acid. When inhaled, it causes eyes, nose, throat and lung strong irritation. In 400-500 ppm concentrations it can cause death.

Some of its main applications are: paper mill, power plants, domestic boilers and food process.

TECHNICAL CHARACTERISTICS

Technology	Microprocessor and electrochemical sensor incorporating filter to remove H ₂ S
Power supply	From 9V to 15V DC.
Consumption	8mA
Measurement range	From 0 to 200 ppm.
Resolution	±1 ppm.
Repeatability	2% Bottom of Scale.
Linearity	All the scale.
Calibration Gas	Precise mixture 20 ppm 400 ml / min.
Operational life	2 years in normal working conditions.
Humidity range	15% to 90% (continuous), 0% to 99% (blinking).
Atmospheric pressure	±10 %.
Temperature Range	From -20°C to +50°C.
Response time	T90 < 25 s.
Cable entry	PG9 syntec cable gland IP67 self-blocking.
Communication	Addressable RS 485 (from 1 to 16).
Protection grade	IP65.
Housing material	Makrolon & ABS.
Weight (gr) and Dimensions (mm)	325 / 120 x 150 x 63
Installation height	30 cm from the floor.
Coverage	100 m ² (recommended).

AVAILABLE GASES

	CO	NO ₂	O ₂	H ₂ S	NO	CL ₂	SO ₂	HCl
Voltage supply	3	3	3	3	3	3	3	3
	from 9V to 15V DC							
Consumption at 12V DC	8mA & 15mA (alarm)	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	3	3	3	3	3	3	3	3
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 at 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)	3	3	3	3	3	3	3	3
0% to 99% (intermittent)								
Pressure limits ±10%	3	3	3	3	3	3	3	3
Working temperature -20°C a +50°C	3	3	3	3	3	3	3	3
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	3	3	3	3	3	3	3	3
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

I-eurodetectorSO2-v05

