



# SONDELTOX

4-20mA detectors using electrochemical technology  
for detection of toxic gases and O<sub>2</sub>

# Detectors for toxic gases & O<sub>2</sub> using electrochemical technology

## SONDELTOX



4-20mA detectors using electrochemical technology for detection of toxic gases and O<sub>2</sub> in polycarbonate housing.



## SONDELTOX O<sub>2</sub> LCD

4-20mA detectors using electrochemical technology for detection of O<sub>2</sub>, with backlit display.

Calibration at factory with target gas.  
Do not recalibrate SONDELTOX when installing.



**SONDELTOX**  
Polycarbonate enclosure  
IP65

# SONDELTOX Presentation & characteristics

**SONDELTOX** are 4-20mA detectors using electrochemical technology for detection of toxic gases and O<sub>2</sub> in polycarbonate housing.

Compatible with **DURGAS & EUROSONDELCO** (using interface)

**Available gases:** Carbon Monoxide (CO), Nitrogen Dioxide (NO<sub>2</sub>), Sulphur Dioxide (SO<sub>2</sub>), Nitrogen Monoxide (NO), Sulphidric Acid (H<sub>2</sub>S), Chlorine (Cl<sub>2</sub>), Oxygen (O<sub>2</sub>) and Hydrogen (H<sub>2</sub>).

Available gases	Standard range *	Installation Height	Coverage	Display
Carbon Monoxide CO (ppm)	0-50, 0-200, <b>0-300*</b> , 0-500	1,70 to 2m from floor	200m <sup>2</sup>	-
Sulphidric Acid H <sub>2</sub> S (ppm)	0-5, 0-10, 0-20, 0-30, 0-50, 0-100, <b>0-200*</b> , 0-300	1m from floor	150m <sup>2</sup>	-
Nitrogen Monoxide NO (ppm)	0-100, 0-300	30cm from ceiling	150m <sup>2</sup>	-
Nitrogen Dioxide NO <sub>2</sub> (ppm)	0-10, <b>0-20*</b> , 0-50, 0-300	40-50 cm from floor	100m <sup>2</sup>	-
Oxygen O <sub>2</sub> (vol)	0-25% vol*	1,70 to 2m from floor	200m <sup>2</sup>	Yes
Sulphur Dioxide SO <sub>2</sub> (ppm)	0-10, 0-20, 0-30, 0-50, 0-100, <b>0-200*</b>	1m from floor	200m <sup>2</sup>	-
Chlorine Cl <sub>2</sub> (ppm)	0-5, 0-10, 0-30	1m from floor	100m <sup>2</sup>	-
Hydrogen H <sub>2</sub> (ppm)	0-5%	30cm from ceiling	100m <sup>2</sup>	-

\* Bottom of scale for EUROSONDELCO.

Power & consumption: 10V to 35V DC / 21mA max.

Working temperature: -20°C to +50°C

Linear in full range

Expectancy life: 2 years in air (3 years in air for CO)

# SONDELTOX

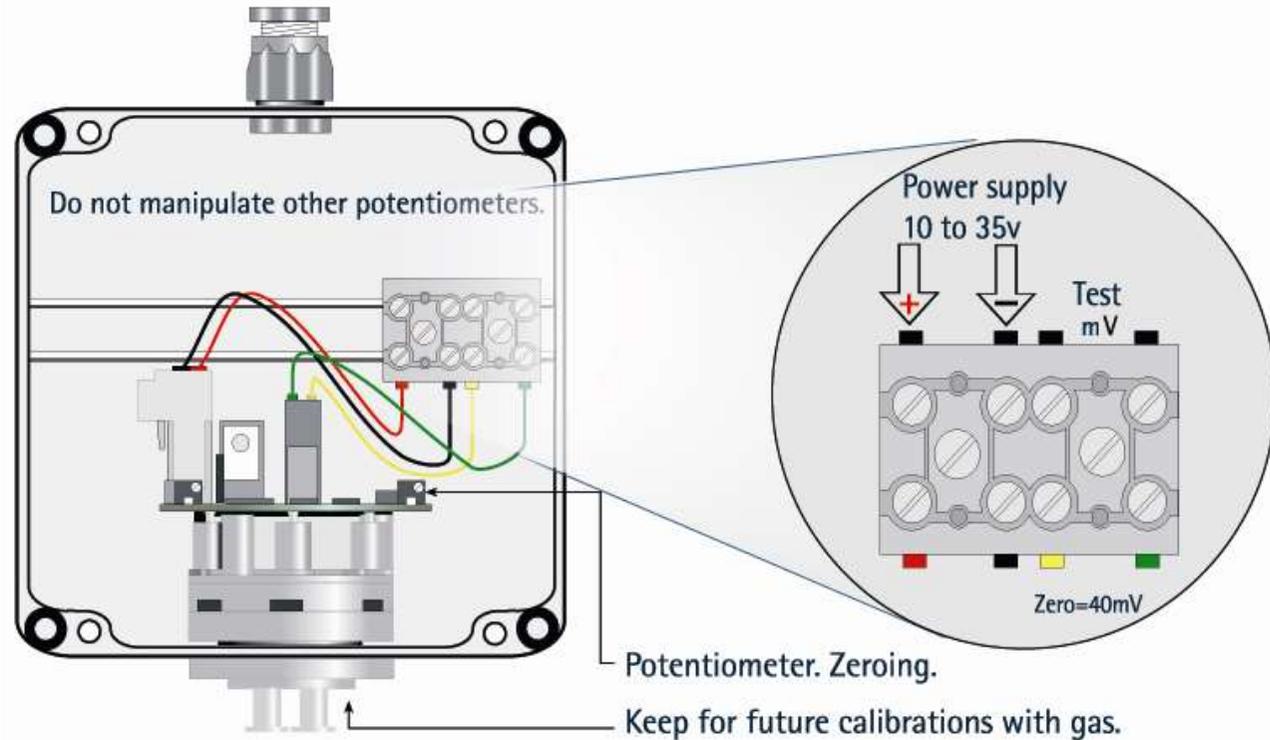
# Connections

**GREEN Cable** . Zeroing (multimeter positive borne)

**YELLOW Cable** . Zeroing (multimeter negative borne)

**BLACK Cable** . Power supply – negative-. 4-20mA output

**RED Cable** . Power supply –positive-. 4-20mA output



**Shield cable 2 x 1 mm<sup>2</sup> for power**  
Cabling max. Distance: 350m approx

# SONDELTOX

# Verification & maintenance



**SONDELTOX**  
Blacklit Display

## TESTING (one-man only)

To carry out a verification test to **SONDELTOX** (with the exception of SONDELTOX O2), follow the next steps:

- 1° Cover the detector during 15 min. with the plug provided and keep it for future tests.
- 2° Place a multimeter at the scale of 200mV, in parallel, with the yellow and green cable.
- 3° Adjust through the ZERO potentiometer of the detector circuit until a reading of 40mV (4mA) is reached.
- 4° Remove the detector plug.

For **SONDELTOX** O2 zeroing, adjust the potentiometer until obtaining a measurement of 178mV, equivalent to 20.9% of O2, in a wide and well ventilated room.

## ZEROING (annual)

Adjust the Zero, at least once a year, following the instructions of the detector technical datasheet.

## CALIBRATION

The detectors recalibration with gas must be carried out at our laboratories.

# SOLUTIONS IN GAS DETECTION

