



# Gas measurement technology

## Esders Single Gas

Reliable and durable single-gas detector with limited lifetime in a compact and maintenance-free design.



- Operational life of two years
- full factory warranty throughout the life of 24 months
- Measurement of H<sub>2</sub>S, CO and O<sub>2</sub> ensures the safety of the worker
- reduces training time
- loud audible alarm, bright visual alarm, vibrating alarm
- programmable alarm levels and screen presentation
- 0.1 ppm resolution for real-time display of gas concentration
- Shelf life up to 12 months before activation
- Self-test function
- note for function tests and reminder programmable
- Event log via IR interface
- „Bump check“ confirmation identification



Technical data	
Size	81mm x 50mm x 28mm (WxHxD)
Weight	76g
Temperature	H <sub>2</sub> S: -40°C to +50°C; CO: -40°C to +50°C; O <sub>2</sub> : -35°C to +50°C
Humidity	5% to 95% non-condensing relative humidity
Alarms	Visual, vibrating, audible (minimum 95dB)
LED's	LEDs on top, front and side
Display	Alphanumeric LCD Graphics display
Tests	Full function self-test on activation and every 20 hours; continuous automatic battery tests
Operational Life	two years, at 4 alarm minutes per day
Ratings	IP 66/67
Certifications	ATEX II 1G Ex ia IIC T4 Ga; IECEx Ex ia IIC T4
Warranty	2 years from activation 1 year shelf life
Gas	H <sub>2</sub> S 0 - 100 PPM CO 0 - 300 PPM O <sub>2</sub> 0 - 30%
Optional accessories	ESDERS IR communication module communicates directly with the ESDERS SingleGas to program special alarm set points, user options, as well as, download event logs & data logs

## Esders Single Gas

The Esders Single Gas is a reliable and durable single-gas detector (**CO, O<sub>2</sub> and H<sub>2</sub>S**) with limited lifetime. The warning device is available in a compact and maintenance-free design, to ensure the safety of the user in hard working conditions.

The Esders single gas stores by default the last 25 happenings. The data is stored on a First-In-First-Out principle. This information can be downloaded via the IR communication module. **With each alarm event the Esders Single Gas stores the following informations:**

- Serial number
- Bump-Test (yes or no)
- remaining lifetime
- Number of performed self-tests
- Number of events
- Alarm condition
- Date and time of each event
- Highest measured gas concentration in ppm or%

Scope of delivery: The package includes the device, a calibration cap and an instruction manual.

EGC IR communication module with USB cable



Item-no. 271506  
Esders Single Gas H<sub>2</sub>S



Item-no. 271507  
Esders Single Gas CO



Item-no. 271505  
Esders Single Gas O<sub>2</sub>

Further spare parts, accessories and gas on request!

Technical modifications reserved!

