



Gas measurement technology

Esders Multi Gas

The first portable multi gas detector with a battery life of months instead of hours.



- 2 month battery life on a single charge (infrared version)
- Compact and lightweight
- Low maintenance cost
- Simple to use
- LEL sensor (IR) does not require oxygen



Technical data	
Size	118,6 x 61,6 x 31,7 mm
Weight	240 g
Temperature	-20° to +50°C
Humidity	5% to 95% RH (non-condensing)
Battery Life	IR Sensor 60 days continuous, Pellistor 25 h (typical)
Charge Time	4 - 6 hours
Alarms	Visual, Vibrating, Audible (minimum 95 dB), Low, High, STEL, TWA and OL (Over Limit)
LED's	4 red alarm bar LEDs, Yellow backlight (activated on button press), Red backlight (activated on alarm condition), Yellow Maintenance Notification LED
Display	Alphanumeric Liquid Crystal Display
Tests	Full function self-test upon activation sensors, battery and circuitry conditions
Ingress Protection	IP 66/67
Certifications and Approvals	ATEX: CE Sira 14ATEX2013 II 1 G Ex ia IIC T4 Ga Ex ia IIC T4 Ga (-20°C >= Ta <= 50°C)
Warranty	Full 2 years
Gases	H ₂ S 0 - 100 PPM CO 0 - 500 PPM Combustible 0 - 100% LEL (Methane) O ₂ 0 - 30%
Sensor Type	H ₂ S, CO, O ₂ : Plug-in electrochemical cell Combustible: Plug-in infrared (IR) or pellistor

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The multi-gas detector can be supplied in different versions, which differ by the type and number of sensors. The infrared sensor has great advantages because it can not be poisoned, no oxygen is required for the measurement and it needs ultra-low power. However, it is more expensive than a Pellistor. But this is more than offset by the much longer service life, the extremely long periods of use and advantages in the measurement. Day in, day out, your employees need to load their portable multi-gas detectors so that you are able to monitor your work environment for flammable gases, H₂S, CO O₂. Unfortunately, it often happens that this is forgotten. The Esders multi-gas detector will help by its extremely long battery life of 2 months to avoid this security risk.

Device	EX	O ₂	CO	H ₂ S	Item-no.
Multi Gas 4-Gas IR	infrared	●	●	●	271501
Multi Gas 4-Gas PEL	pellistor	●	●	●	271502
Multi Gas 2-Gas IR	infrared	●			271503
Multi Gas 2-Gas PEL	pellistor	●			271504

The Esders multi-gas detector with infrared sensor can be turned on full 2 months without charging, even without ever switched off. By switching off the device at night, the battery life can be extended to up to 4 months. What is the secret of this long battery life? It uses low-power infrared sensors for the detection of combustible gases (LEL).

Scope of delivery:

Meter, charger, calibration cap and operating instructions



User Options:

- User message
- TWA/STEL intervals
- Languages (6)
- Latching alarms
- Self-Test lock
- Auto-zero on start up
- Bump Test interval
- Low / High Alarm
- Maintenance notification
- TWA method
- Sensor disable
- SAFE display
- Dock lock
- Calibration gas
- Calibration interval
- TWA / STEL alarm



Item-no. 372011
Testgas 1,45% CH₄,
60 ppm CO, 2,5% CO₂,
15% O₂, 20 ppm H₂S



Item-no. 331023
Testset PED 5
components gas



Item-no. 272501
Esders IR Link for Esders
Single- and Multi Gas devices

Further spare parts, accessories and gas on request!

Technical modifications reserved!

