

500GD

Multifunction detector and measuring device.



Small, fast response time, easy to handle, exchangeable plug & play sensors.

- Fast detection results by means of integrated fan
- Clearly arranged TFT graphical display
- Indication of gas concentration in ppm, for easy location of gas leaks
- Search mode for a fast leakage detection
- Sensor change during operation possible, automatic recognition by the device
- Optical alarm on the display
- Acoustic and vibration alarm by the device (only leak detection)
- Reliable zero point adjustment even in contaminated areas
- Adjustable alarm thresholds (only leak detection)
- Strong Lithium-Ion battery, chargeable via Mini-USB socket
- Display of measurement results also as QR code (forwarding measuring results via e-mail)



Leak detection on gas installations

HC-sensor (flammable gases)

500GD

Technical data

| 500GD basic unit | |
|--|-------------------------------|
| Rel. humidity during operation, non-condensing | 95 % |
| Display | 45 mm (1.8") TFT |
| Interface (Charging/firmware updates) | Mini-USB |
| Built-in battery, operating time (depending on sensor) | Li-Ion, typ. 20 h |
| Operating conditions | +5 ... +50 °C |
| Storage conditions | -20 ... +60 °C |
| Power supply/consumption | 100 ... 240 V, 5 V DC, 500 mA |
| Protection class | IP30 |
| Dimensions (W x H x D) | 50 x 163 x 25 mm |
| Weight | approx. 220 g |

| Exchangeable sensors | Description | Measuring range | Resolution | Response time |
|--|-------------------------|--|------------|---------------|
| CH ₄ (Leak detection gas) | HC-sensor | 0 ... 44,000 ppm | 1 ppm | ≤ 3 sec. |
| C ₃ H ₈ (Leak detection gas) | HC-sensor | 0 ... 17,000 ppm | 1 ppm | ≤ 3 sec. |
| H ₂ (Leak detection gas) | HC-sensor | 0 ... 40,000 ppm | 1 ppm | < 5 sec. |
| Spillage test | RM-sensor | 0 ... 100 | 1 | < 1 sec. |
| Humidity (Indoor climate) | HM-sensor | 0 ... 100 % RH | 0.1 % | |
| Temperature (Indoor climate) | HM-sensor | 0 ... +60 °C | 0.1 °C | |
| Barometric pressure (Indoor climate) | HM-sensor | 300 ... 1,100 hPa | 0.1 hPa | |
| Dew point (Indoor climate) | HM-sensor | calculated from humidity and temperature | | |
| Temperature | IR-sensor | -70 ... +380 °C | 0.1 °C | |
| Carbon monoxide | CO-sensor | 0 ... 1,000 ppm | 1 ppm | < 30 sec. |
| Carbon dioxide | CO ₂ -sensor | 400 ... 10,000 ppm | 1 ppm | 90 sec. |

| Leak detection refrigerant | |
|----------------------------|-----------------------------|
| Description | RF-sensor |
| Reference refrigerant | R134a |
| Detectable refrigerant | FCKW, HFCKW, FKW, HFKW, HFO |
| Measuring range | 0 ... 1,000 ppm |
| Resolution | 1 ppm |
| Detection limit | ≤ 3 g/year |
| Response time | ≤ 2 sec. |
| Recovery time | ≤ 5 sec. |

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