

# 400GD / 500GD

Multi functional detectors for ...

CH<sub>4</sub> | C<sub>3</sub>H<sub>8</sub> | H<sub>2</sub> | CO<sub>2</sub> | CO | IAQ | °F | FCKW | HFCKW | HFKW | HFO

- ➔ Smart sensor
- ➔ Quick change system

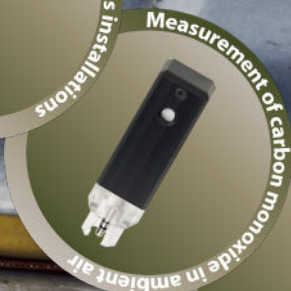


# 400GD

**Compact, durable, easy to handle  
(without suction mechanism)**

Multifunction detector and measuring device

- Plug & play sensors with automatic device recognition
- Optical alarm at the sensor and on the display of the device (only leak detection)
- Acoustic and vibration alarm by the device (only leak detection)
- Adjustable alarm thresholds (only leak detection)
- Indication of gas concentration in ppm, % and %LEL (HC-sensor)
- Strong Lithium-Ion battery, chargeable via Mini-USB socket
- QR-codes for measurement results, with forwarding via email



# 500GD

## Fast, selective, and powerful (with suction feature)

### Multifunction detector and measuring device

- Fast measurement results due to integrated suction feature (1 ... 1.5 seconds)
- Search mode for quick leak detection
- Reliable zeroing, even with contaminated ambient air
- Display in ppm for precise location of gas leaks and determination of the gas concentration
- Sensor change during operation possible, automatic recognition by the device
- Adjustable alarm thresholds (only leak detection)
- Optical alarm on the display of the device (only leak detection)
- Acoustic and vibration alarm by the device (only leak detection)
- Clear graphic display (TFT)
- Strong Lithium-Ion battery, chargeable via Mini-USB socket
- Display of measurement results also as QR code (forwarding measuring results via e-mail)



# 400GD / 500GD

## Technical details

| BASIC UNIT                                             | 400GD                                    | 500GD                                   |
|--------------------------------------------------------|------------------------------------------|-----------------------------------------|
| Rel. humidity during operation, non-condensing         | 95%                                      | 95%                                     |
| Display                                                | 45 mm (1.8") TFT                         | 45 mm (1.8") TFT                        |
| Interface (Charging/firmware updates)                  | Mini-USB                                 | Mini-USB                                |
| Built-in battery, operating time (depending on sensor) | Li-Ion, type 20 h                        | Li-Ion, type 20 h                       |
| Operating conditions                                   | 41 ... 122 °F (+5 ... +50 °C)            | 41 ... 122 °F (+5 ... +50 °C)           |
| Storage conditions                                     | -4 ... 140°F (-20 ... +60 °C)            | -4 ... 140°F (-20 ... +60 °C)           |
| Power supply / consumption                             | 100 ... 240 V, 5 V DC, 500 mA            | 100 ... 240 V, 5 V DC, 500 mA           |
| Protection class                                       | IP30                                     | IP30                                    |
| Dimensions (W x H x D)                                 | 1.97" x 5.31" x 1.38" (50 x 135 x 35 mm) | 1.97" x 6.41 x 1.38" (50 x 163 x 35 mm) |
| Weight                                                 | appr. 8 ounces (230 g)                   | appr. 8 ounces (220 g)                  |

| Plug & Play Sensors                                | Description   | Measuring range                          | Resolution | Response time |
|----------------------------------------------------|---------------|------------------------------------------|------------|---------------|
| CH <sub>4</sub> (Leak detection gas)               | HC400/401/402 | 0 ... 44,000 ppm                         | 1 ppm      | < 5 sec.      |
| C <sub>3</sub> H <sub>8</sub> (Leak detection gas) | HC401/402     | 0 ... 17,000                             | 1 ppm      | < 5 sec.      |
| H <sub>2</sub> (Leak detection gas)                | HC402         | 0 ... 40,000                             | 1 ppm      | < 5 sec.      |
| Stack moisture                                     | RM400         | 0 ... 100                                | 1          | < 1 sec.      |
| Humidity (Indoor climate)                          | HM400         | 0 ... 100 % RH                           | 0.1%       |               |
| Temperature (Indoor climate)                       | HM400         | 32 ... 140°F (0 ... +60 °C)              | 0.1 °C     |               |
| Barometric pressure (Indoor climate)               | HM400         | 300 ... 1,100                            | 0.1 hPa    |               |
| Dew point                                          | HM400         | calculated from humidity and temperature |            |               |
| Temperature                                        | IR400         | -94 ... 716°F (-70 ... +380 °C)          | 0.1 °C     |               |
| Carbon monoxide measurement                        | CO400         | 0 ... 1,000 ppm                          | 1 ppm      | < 30 sec.     |
| Carbon dioxide measurement                         | CD400         | 400 ... 10,000 ppm                       | 1 ppm      | 90 sec.       |

| Leak detection refrigerant | 400GD                                                                                                                                                                                                  | 500GD                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | RF sensor                                                                                                                                                                                              | RF sensor                                                                                                                                                                                              |
| Reference refrigerant      | R134a, R1234ze, R32, H2, R22, R125, R152a, R170, R227, R290, R401A, R402, R404a, R407, R410a, R413a, R417a, R422, R427, R448a, R449a, R450a, R452a, R452b, R454, R513a, R600(a), R1150, R1234yf, R1270 | R134a, R1234ze, R32, H2, R22, R125, R152a, R170, R227, R290, R401A, R402, R404a, R407, R410a, R413a, R417a, R422, R427, R448a, R449a, R450a, R452a, R452b, R454, R513a, R600(a), R1150, R1234yf, R1270 |
| Detectable refrigerant     | FCKW, HFCKW, FKW, HFKW, HFO                                                                                                                                                                            | FCKW, HFCKW, FKW, HFKW, HFO                                                                                                                                                                            |
| Measuring range            | 0 ... 1,000 ppm                                                                                                                                                                                        | 0 ... 1,000 ppm                                                                                                                                                                                        |
| Resolution                 | 1 ppm                                                                                                                                                                                                  | 1 ppm                                                                                                                                                                                                  |
| Detection limit            | 5 g/year                                                                                                                                                                                               | 1 g/year                                                                                                                                                                                               |
| Response time              | < 4 sec.                                                                                                                                                                                               | ≤ 1.5 sec.                                                                                                                                                                                             |
| Compliant to               |                                                                                                                                                                                                        | DIN EN 14624                                                                                                                                                                                           |

Subject to change without notice



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