



400GD / 500GD

Multi functional detectors for ...

CH₄ | C₃H₈ | H₂ | CO₂ | 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)



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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 ₄ (Leak detection gas)	HC400/401/402	0 ... 44,000 ppm	1 ppm	< 5 sec.
C ₃ H ₈ (Leak detection gas)	HC401/402	0 ... 17,000	1 ppm	< 5 sec.
H ₂ (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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