



400GD & 500GD

Multifunction gas detectors and measuring instruments.



With smart sensor quick change system.





Sensor quick change system

The suitable sensor for every application







Leak detection on air conditioning units

RF-sensor (refrigerant)

Leak detection on gas installations

HC-sensor (flammable gases)

Spillage test on flue gas systems*

RM-sensor (spillage test)







Check of indoor climate*

HM-sensor (humidity, temperature, barometric pressure and dew point)

Contactless temperature measurement*

IR-sensor (surface temperature)

Measurement of carbon monoxide in ambient air*

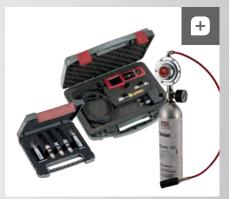
CO-sensor



Measurement of carbon dioxide in ambient air* CO₂-sensor



LED flashlight* 21 lumens, 5,000 K



Practical accessories

Test and calibration set as well as transport and storage case

500GD

Fast, selective and powerful (with suction feature)



400GD

Technical data

400GD 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-lon, 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 135 x 35 mm
Weight	appr. 230 g

Plug & Play Sensors	Description	Measuring range	Resolution	Response time
CH₄ (Leak detection gas)	HC400/401/402	0 22,000 ppm	1 ppm	< 5 sec.
C₃H ₈ (Leak detection gas)	HC401/402	0 8.500 ppm	1 ppm	< 5 sec.
H₂ (Leak detection gas)	HC402	0 20,000 ppm	1 ppm	< 5 sec.
Spillage test	RM400	0 100	1	< 1 sec.
Humidity (Indoor climate)	HM400	0 100 % RH	0,1 %	
Temperature (Indoor climate)	HM400	0 +60 °C	0,1 °C	
Barometric pressure (Indoor climate)	HM400	300 1,100 hPa	0,1 hPa	
Dew point	HM400	calculated from hum	nidity and temperature	
Temperature	IR400	−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	
Description	RF sensor
Reference refrigerant	R134a, H2, R410a, R1234Ze
Detectable refrigerant	FCKW, HFCKW, FKW, HFKW, HFO
Measuring range	0 1,000 ppm
Resolution	1 ppm
Detection limit	5 g/year
Response time	< 4 sec.

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-lon, 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	appr. 220 g

Plug & Play Sensors	Description	Measuring range	Resolution	Response time
CH₄ (Leak detection gas)	HC400/401/402	0 22,000 ppm	1 ppm	≤ 3 sec.
C ₃ H ₈ (Leak detection gas)	HC401/402	0 8.500 ppm	1 ppm	≤ 3 sec.
H₂ (Leak detection gas)	HC402	0 20,000 ppm	1 ppm	≤ 5 sec.
Spillage test	RM400	0 100	1	< 1 sec.
Humidity (Indoor climate)	HM400	0 100 % RH	0,1 %	
Temperature (Indoor climate)	HM400	0 +60 °C	0,1 °C	
Barometric pressure (Indoor climate)	HM400	300 1,100 hPa	0,1 hPa	
Dew point	HM400	calculated from hur	midity and temperature	2
Temperature	IR400	−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	
Description	RF sensor
Reference refrigerant	R134a, H2, R410a, R1234Ze
Detectable refrigerant	FCKW, HFCKW, FKW, HFKW, HFO
Measuring range	0 1,000 ppm
Resolution	1 ppm
Detection limit (R134a, R1234yf, R290)	1 g/year
Response time	≤ 1,5 sec.
Compliant to	DIN EN 14624

MRU – Competence in gas analysis. For over 35 years.



MRU · Messgeraete fuer Rauchgase und Umweltschutz GmbH

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