



## 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\*

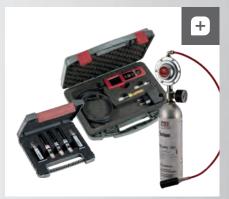
CO-sensor



Measurement of carbon dioxide in ambient air\* CO<sub>2</sub>-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	-10°* +50 °C (*depending on sensor)
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.
C <sub>3</sub> H <sub>8</sub> (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	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	CFC, HCFC, PFC, HFC
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	-10°* +50 °C (*depending on sensor)
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 <sub>3</sub> H <sub>8</sub> (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	nidity 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	CFC, HCFC, PFC, 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. Since 1984.



### MRU · Messgeraete fuer Rauchgase und Umweltschutz GmbH

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