

Technical data sheet

VARIOTEC[®] 400 EX

Device data	
Dimensions (W x D x H)	approx. 148 x 57 x 205 mm approx. 148 x 57 x 253 mm with supporting bracket
Weight	approx. 1000 g, depending on equipment

Certificates	
Certificate	TÜV 07 ATEX 553353 X II2G Ex d e ib IIB T4 Gb basic device without leather bag for: CH ₄ , C ₃ H ₈ , C ₄ H ₁₀ , C ₉ H ₂₀ , CO II2G Ex d e ib IIC T4 Gb basic device with leather bag for: CH ₄ , C ₃ H ₈ , C ₄ H ₁₀ , C ₉ H ₂₀ , CO, H ₂

Device elements	
Display	monochromatic graphic display, 320 x 240 pixels
Buzzer	frequency 2.4 kHz, volume 80 db (A) / 1 m
Signal light	red
Pump capacity	vacuum > 250 mbar, volume flow approx. 50 l/h
Interface	USB
Memory	8 MB
Operation	ON/OFF key, 3 function keys, jog dial

Operating conditions	
Operating temperature	-20 °C – +40 °C
Storage temperature	-25 °C – +60 °C (temperatures above 40 °C reduce the lifetime of the sensors)
Humidity	5 – 90 % r.h., non-condensing
Atmospheric pressure	800 – 1100 hPa
Protection rating	IP54

Power supply	
Power supply	NiMH rechargeable or disposable alkaline batteries, type Mignon (AA)
Operating time, typical	at least 8 h
Charging time	approx. 3 h (complete charge) depending on capacity
Charging voltage	12 V DC, max. 1 A

Data transmission	
Communication	USB

Gas types	
Standard	methane
Optional	propane C ₃ H ₈ (ppm) butane C ₄ H ₁₀ (ppm)

Semiconductor sensor ppm range	
Measuring range	0 – 10000 ppm (CH ₄)
Resolution	1 ppm / 2 ppm / 20 ppm / 200 ppm
Response times	t ₉₀ < 7 s
Warm-up time	approx. 1 min
Measuring error	30 %
Interference	all flammable gases
Lifetime, expected	5 years

106907 – 06-06-2012 – Subject to technical changes.