





## **DELTAsmart**

Handheld unit for modern flue gas analysis.



For control measurements at gas-, oil- and wood-firings.





### The device in detail

## An overview of the special features



#### **Operation and colour display**

Intuitive guidance through the measuring programs, due to easy display- and keypad-interaction



#### Condensate and dirt are kept out

Large-volume condensate separator with proven star filter including water stop function



#### Hands free through magnetic force

Thanks to four strong magnets on the back, the hand-held device adheres firmly and securely to metallic surfaces



#### Store, transfer and print measurement data

Micro-SD, Mini-USB and Bluetooth for data transfer to Smartphone, Tablet or PC – or infrared speed printer



#### Easy to clean and reliable

4 years warranty without maintenance obligation by using long-life sensors



#### **Practical accessories**

Optionally: transport case, MRU speed printer, probe with 180 mm exchangeable probe tube and 3rd sensor for NO measurement

## **DELTAsmart**

# Technical data



Measured values	Measuring range	Resolution	Accuracy
Oxygen (O <sub>2</sub> )	0 21.0 Vol% absolute	0.1 %	± 0.2 Vol% absolute
Carbon monoxide (CO) (H <sub>2</sub> compensated)	0 4,000 ppm, overload up to 10,000 ppm*	1 ppm	± 10 ppm or 5% of reading** < 4,000 ppm, 10% of reading > 4,000 ppm
Carbon monoxide (CO)	0 10,000 ppm, overload up to 20,000 ppm*	1 ppm	± 20 ppm or 5 % of reading** < 4,000 ppm, 10 % of reading > 4,000 ppm
Nitric monoxide (NO)	0 5,000 ppm, overload up to 10,000 ppm*	1 ppm	± 5 ppm or 5 % of reading** < 5,000 ppm, 10 % of reading > 5,000 ppm
Flue gas temperature	-40 +1,200 °C	0.1 °C	$\pm$ 2 °C < 200 °C, 1 % of reading** > 200 °C
Differential temperature	-40 +1,200 °C	0.1 °C	± 2 °C or 0.5 %
Combustion air temperature	0 +100 °C	0.1 °C	±2°C
Chimney draft	± 200 hPa (mbar)	0.01 hPa	± 0.02 hPa (mbar) or 1 %
Differential pressure	± 200 hPa (mbar)	0.01 hPa	± 0.02 hPa (mbar) or 1 %
Combustion calculations	CO <sub>2</sub> , excess air, efficiency, dew point, CO ambient air measurement, leak test		

Calculated values	Measuring range (fuel dependent)	Resolution	Accuracy
Fuels	natural gas, light oil EL, liquid gas,	pellets and many	more
Carbon dioxide (CO <sub>2</sub> )	0 CO₂ max.	0.1 %	± 0.3 Vol% absolute
Dew point	°C	0.1 ℃	
Flue gas loss (qA)	0 99.9%	0.1 %	
Efficiency	0 120%	0.1 %	
Excess air	0 999 %		

General technical data			
Operating conditions	$+5 \dots +45$ °C; RH up to 95 % non condensing		
Storage conditions	-20 +50 °C		
Data storage	1,000 measurements, 1,000 sites		
Interface	Mini-USB, Micro-SD, IRDA, Bluetooth (data transfer to Smartphone, Tablet or PC)		
Internal power supply	Li-lon, 2,250 mAh, 8 Wh		
Mains power supply	Power supply unit 100 240 Vac, 50 60 Hz, 5 V DC, 500 mA		
Protection class	IP30		
Approvals	TÜV-certified according to 1. BlmSchV and EN 50379-1 and 2 (Version B) or EN 50379-3 (Version E), ByRgG 309		
Dimensions (W x H x D)	82 x 169 x 44 mm		
Weight	approx. 400 g (without probe)		



