smartGAS.

MADE IN GERMANY

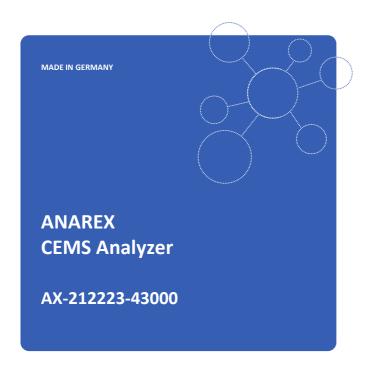## ANAREX
CEMS Analyzer

AX-212223-43000

- **Multigas analyzer**
- **Easy operation via touch screen**
- **Easy sensor calibration**
- **Best measurement performance**
- **For installation in a 19" rack**
- **Analog or digital output**
- **Photoacoustic sensors**
- **NDIR sensors**
- **Paramagnetic sensors Technology**
- **Electro chemical sensors**

The ANAREX CEMS analyzer of smartGAS is a high-performance solution for CEMS and process control applications. It convinces with its highly accurate and stable measurement performance as well as its customer-friendly interfacing via touch screen along with a simple sensor calibration.

The ANAREX is designed as a multi-gas analyzer and is suitable for installation in a 19" rack.

The smartGAS analyzer can also use different technologies to fulfil all kinds of application requirement.

The smartGAS Analyzer is equipped with a 5.6" touch screen, that displays the gas concentration as real-time reading. The internal software is designed to control zero, span and third point calibration to ensure a perfect accuracy of the measurement values.

Application examples	**Measuring principles**	**Peripherals**	**Customizing options**
CEMS	Infrared NDIR	Gas cooler	Measuring gases
Process control		Pumps	Detection ranges
		Particle filter	Design and Software
		Tubes	Gas pre treatment
		Mounting equipment	

General features

Measurement principle:	CO_2 … NDIR CO … NDIR NO … NDIR SO_2 … NDIR
Measurement range:	0 … 20 Vol.-% (CO_2) 0 … 1000 ppm (CO) 0 … 2000 ppm (NO) 0 … 1000 ppm (SO_2)
Detection Limits:	≤ 0.23 Vol.-% (CO_2) ≤ 16 ppm (CO) ≤ 30 ppm (NO) ≤ 12 ppm (SO_2)
Repeatabiliy	≤ ± 0.06 Vol.-% (CO_2) ≤ ± 6 ppm (CO) ≤ ± 10ppm (NO) ≤ ± 4 ppm (SO_2)
Drift:	≤ ± 0.2 Vol.-% over 1000 h period (CO_2) ≤ ± 20 ppm over 1000 h period (CO) ≤ ± 50 ppm over 1000 h period (NO) ≤ ± 20 ppm over 1000 h period (SO_2)

Basic information

Display:	Touch screen, 5.6" LCD
Analogue output:	4-20 mA (in operation) 2 mA (Warm-up or alarm)
Load resistance:	250 Ω ~ 350 Ω
Alarm output:	Device status alarm // Measurement channel level alarm *Relay will close and isolate if alarm limits are exceeded*
Relay:	1 A Trigger (250 V AC / 2 A, resistive load)
Communication:	RS232 (DB-9 Female)
Power:	(198 ~ 242) V AC, 50 / 60 Hz
Power connection:	EN 60320 C1
Fuse:	Rated current: 3A; Size: 5 x 20 mm
Protection level:	IP42 (EN 60529)
Weight:	15 kg

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Gas flow & Environment information

Gas Inlet flow:	(0.4 ~ 0.8) L/min
	(flow fluctuation ≤ 0.02 L/min)
Gas temperature:	(5 ~ 35) °C
Gas pressure:	(76 ~ 116) kPa
Humidity:	non-condensing
	Inlet dew point: 5°C ± 0.1°C
Particulates:	100 µg / m^3, ≤1 µm
Zero gas:	99.999 % N_2 (NDIR)
	Clean air, free of sample gas (Photoacoustic)
Span gas:	75 % ~ 110 % of span point
	Clean air (0 ~ 25 % O_2 measurement)
Third point gas:	35 ~ 75 % of span point
Operation temperature:	10°C ~ 40°C
Humidity:	0 ~ 95 % RH (non-condensing)
Pressure:	76 kPa ~ 116 kPa

*   Typical values related to 1013 hPa, Ta = 22 °C, flow = 0.7 l / min for dry (not condensing) and clean sample gas. Stated values exclude calibration gas tolerance.

For more information, please visit www.smartgas.eu or contact us at sales@smartgas.eu
Please consult smartGAS sales for parts specified with other temperature and measurement ranges. At first initiation and depending on application and ambient conditions recalibration is recommended. Recurring cycles of recalibration are recommended.