ANAREX – OPTIMUM MEASURING ACCURACY AND PERFORMANCE

Innovative gas sensors

smartGAS.

ANAREX –

Customized solutions for gas measuring technology

The ANAREX product family impresses with its stable high-precision measuring performance, intuitive operation and easy calibration. Designed as a 19-inch multi-gas analyzer, the products can be easily commissioned via plug-and-play. The flowmeter at the front enables the gas flow to be controlled while the measuring values can be both read at the 5.6 inch LCD touch screen or transmitted via RS232 interface and an analog output.

Top gas sensor technologies combined

ANAREX gas analyzers are primarily based on the NDIR sensors of the Flow^{EVO} and SILAREX series, however, they can be supplemented with paramagnetic and photoacoustic or electrochemical sensors. If required, up to five gases can be measured with three sensors in one ANAREX gas analyzer. The internal software controls the zero and end point calibration to ensure perfect accuracy of the measuring values.

Possible application areas and measuring gas combinations

Industrial plants, cogeneration plants, power plants: CO₂ (0...20% by volume) and CO (0...1000 ppm) – already available Fruit ripening & storage: CO₂ (0...5% by volume), O₂ (0...25% by volume) and Ethylene (5...1000 ppm) – already available TOC measurement: CO₂ (100 ppm / 500 ppm / 2000 ppm) – already available

Blast-furnace gases: CO, CO2, CH4, O2 Process gas analysis: CO, CO2, O2, NOx Pesticides: CH3Br, SO2F2 Waste incineration gases: SO₂, NO, NO₂, O₂, CO₂ Emission monitoring: CO₂, NO, SO₂ Biogas plant: CO₂, CH₄



Fechnical specifications

Display: Housing: Analog output Interface: Mains voltage: Mains connection: Protection class: Weight:

5.6 inch LCD touch screen 19 inch rack 4 – 20 mA (during operation) RS232 (DB9 socket) 198 – 242 VAC, 50/60 Hz EN 60320 C1 IP42 15 kg

Gas flow and ambient

Gas flow: Flow rate fluctuation: ≤0.02 l/min Gas temperature: Gas pressure: Moisture: Input dew point: Max. particle content: 100 µg/m₃, ≤1 µm Operating temperature: 10 °C – 40 °C Humidity: Ambient pressure:

0.4 – 0.8 l/min 5 – 35 °C 76 – 116 kPa non-condensing 5 °C ±0.1 °C 0 - 95% rH (non-condensing) 76 – 116 kPa

Metrological specifications

Repeat accuracy:

Linearity:

Response time: Warm-up period:

Measurement resolution: 0.01% (photoacoustic) 0.001% (paramagnetic) 0.1% (NDIR) 0.1% FS (photoacoustic) 1% FS (paramagnetic) 1% FS (NDIR) 0.1% FS (photoacoustic) 1% FS (paramagnetic) 1% FS (NDIR) <25 s (t90@60 l/h, smooth flow rate) <25 S (t90@60 l/h, smooth flow rate)

About smartGAS

smartGAS Mikrosensorik GmbH is a dynamic company specialized in the development, the production and the marketing of innovative gas sensors and gas analyzing solutions. smartGAS develops, produces and sells both OEM and customized sensor systems. Most of the products are based on infrared absorption (NDIR) and photoacoustic spectroscopie (PAS), which allows selective detection of a gas and accurate determination of its concentration. Recent developments have seen not only significant reduction in size but also an increase in the number of detectable gases. The sensors are used in applications such as fruit ripening and storage, high voltage, emission monitoring, process control, refrigeration analyzers and monitoring, analytical appliances and process control.

The goal of smartGAS is to simplify the handling of gases using innovative technologies to protect the environment and to advance the safety for humans and equipment. Therefore we offer our standard products and customized solutions and provide support and assistance for the design in.

Ambitioned to make earth a safer place.

smartGAS.

smartGAS Mikrosensorik GmbH

Huenderstr. 1, 74080 Heilbronn, Germany +49 (0) 7131.797553-0 www.smartgas.eu mail@smartgas.eu

江苏世麦格传感技术有限公司 smartGAS Sensor Technology Co.,Ltd.

江苏省常熟市,经济技术开发区,江南大道59号,滨江科技创新中心16幢 Building 16, No.59 Jiangnan Rd. CEDZ Changshu China +86 (0) 512 83380880 www.smartgas-cn.com Info@smartgas-cn.com

System Partner 江苏舒茨测控设备股份有限公司 SIGAS Measurement Engineering Corp.

江苏省常熟市,经济技术开发区,江南大道59号,中关村科技城15幢 Building 15, No.59 Jiangnan Rd. CEDZ Changshu China +86 (0) 512 52265350 www.sigas-groupo.com Info@sigas-group.com

smartGAS.