



## Product features:

- High stable measuring performance
- Easy operation via touch screen
- Simple calibration
- Standard 19 inch 3HE rack
- Analog Isolated (0)4..20mA Interface
- Digital RS232 and RS485 Interface
- Low maintenance and high durability
- High selectivity and measuring accuracy
- Long-term stability and very low drift
- Low detection limit and T90 time
- Auto-Calibration Mode
- Isolated Digital Inputs
- Potential free Digital Outputs



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 **ANAREX** is available even with two gas streams as **ANAREX-DS** (double stream) as two in one solution. **ANAREX** gas analyzers are primarily based on the NDIR sensors of the **FLOW<sup>EVO</sup>** and **SILAREX** series, however, they can be supplemented with several technologies like NDUV, TCD, TDLS, EC,PID,UVDOAS, paramagnetic and photoacoustic as well as several other.

## ANAREX 2.0 #2-N21-N04-T51 CO<sub>2</sub> 100Vol.% / CH<sub>4</sub> 100Vol.% / H<sub>2</sub> 100Vol.%

### General features

Release date: 18 Aug 2025

Gas Streams	1
Flow Meter	1
Gas supply	Flow Mode 1/8" NPTF
Mounting dimensions	Standard 19" 3 U
User Interface	Touch panel, 5.6" TFT
Gas Inlet Flow	0.4 .. 0.8 L/min (Flow fluctuations ≤0.02 L/min)
Inlet Gas Temp.	5 .. 35 °C
Inlet Gas Pressure	116 kPa (max)
Moisture in Gas	inlet gas dew point: 5 °C ±0.1 °C
Dust in gas flow	100 µg/m <sup>3</sup> , ≤ 1µm
Warm-up time (full specification)	< 30 minutes
Internal Gas Tubing	PU ( certified )   other on Request
Analog Interface	(0)4..20mA each gas   Resistance 250..350Ω   Isolated 3kV(rms)
Digital Interface	RS232   RS485   Digital Inputs Isolated 3kV(rms)   Outputs potential free
Zero Calibration Gas	Stream 1 : Nitrogen                      Stream 2 : -/-
Span Calibration Gas balance	Stream 1 : Nitrogen                      Stream 2 : -/-

### Measuring\*

Response time (t90)**:	< 30 s							
Gas	Technology	Range	Linearity Error	LDL (3 σ)	Display	C.C**	P.C***	Stream
1 CO <sub>2</sub>	NDIR Biogas	0 .. 100 Vol.%	<±1 %[FS]	<±0.5 %[FS]	XXX.x	-/-	-/-	1
2 CH <sub>4</sub>	NDIR Biogas	0 .. 100 Vol%	<±1 %[FS]	<±0.5 %[FS]	XXX.x	-/-	-/-	1
3 H <sub>2</sub>	TCD	0 .. 100 Vol.%	<±1 %[FS]	<±0.5 %[FS]	XXX.x	1,2	-/-	1
4								
5								
Cross sensitivities****								

### Electrical parameters

Supply voltage:	198~242V AC, 50/60 Hz or 88~132V AC, 50/60 Hz
Power Connector	EN60320 C1
Case Protection Level	IP42 (EN60529)
Package Dimensions	577mm*512mm*255mm

### Climatic conditions

Operating temperature:	5 °C .. 45 °C
Storage temperature:	-20 .. + 60 °C
Air pressure:	760 .. 1160 hPa
Ambient humidity:	0 .. 95 % relative humidity (not condensing)

### Accessories to be ordered separately :

Power Cable and Mains Voltage :	Refer to the requirement of country
Gas Connections (one Set : Inlet/Outlet)	Stainless Steel: 1/8" 1/4" 10mm 6mm   Rubber Tube: 6mm   PTFE: 6mm

\* 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.

\*\* C.C : Internal Cross compensated by other gas

\*\*\* P.C : Pressure compensated

\*\*\*\* If cross sensitivities are listed it is not limited to the list. Application based the back ground gas need to be confirmed

All rights reserved. Any logos and/or product names are trademarks of smartGAS. The reproduction, transfer, distribution or storage of information contained in this brochure in any form without the prior written consent of smartGAS is strictly prohibited. All specifications – technical included – are subject to change without notice. Depending on the application, the target gas and the measurement range the technical data may differ. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale.

For more information, please visit [www.smartgas.eu](http://www.smartgas.eu) or contact us at [sales@smartgas.eu](mailto: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.