



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^{EVO}** 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-S21-S21-S21-E50 CO₂ 25000 / 1000 / 100 ppm / O₂ 25Vol.%

General features

Release date: 09 Jul 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 ³ , ≤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)**:		<25s (t90 @60 L/h Constant Flow)						
Gas	Technology	Range	Linearity Error	LDL (3 σ)	Display	C.C**	P.C***	
1 CO ₂	NDIR SX	0 .. 25000 ppm	<±1 %[FS]	<±0.5 %[FS]		-/-	yes	Note ¹
2 CO ₂	NDIR SX	0 .. 1000 ppm	<±2 %[FS]	<±0.5 %[FS]	XXXXX.x	-/-	yes	Note ¹
3 CO ₂	NDIR SX	0 .. 100 ppm	<±2 %[FS]	<±0.5 %[FS]		-/-	yes	Note ¹
4 O ₂	EC	0 .. 25 Vol%	<±1.5 %[FS]	<±0.5 %[FS]	XX.x	-/-	-/-	Note ²

Note¹ : Three Channel 100/1000/25000 ppm merged as one value
 Cross sensitivities****

Note² : Cross Sensitivity NO₂ +0.1 Vol.%@517ppm

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

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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.

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