



Electro Optical Components, Inc.

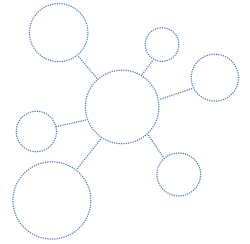
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smartGAS Analytic Gas Sensors



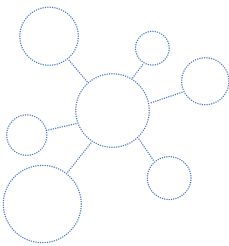
Types

- FLOW^{EVO}
- FLOW^{EVO} Plus
- FLOW^{EVO} Pro
- SILAREX
- SILAREX TOC/WR
- SILAREX Plus

Accessories

- Cases
- SILAREX Heater
- FLOW^{EVO} (PRO) Heater
- FLOW^{EVO} (PRO) CONNECT Interface
- Tools
 - Calibration Tool
 - Data Logger Tool

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FLOW^{EVO}

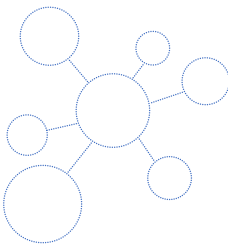


Gas	Measurement range
CO ₂	100 ppm – 100 Vol.-%
CO	2000 ppm – 100 Vol.-%
CH ₄	5000 ppm – 100 Vol.-%
SF ₆	50 ppm – 100 Vol.-%
C ₂ H ₄	2000 ppm
SO ₂	2000 ppm
SO ₂ F ₂	100 ppm – 6 Vol.-%
N ₂ O	500 ppm
CH ₃ Br	5 – 40 Vol.-%

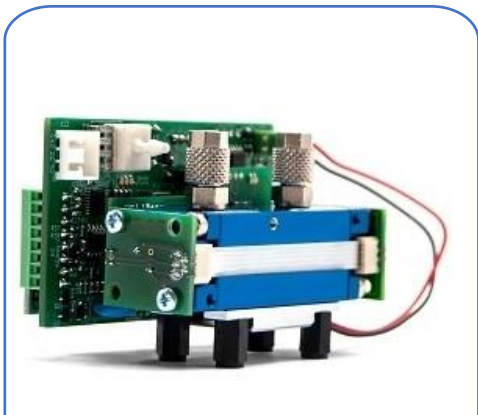
- Single Gas NDIR Sensor Two Channel Detector with Reference
- Power 3.3 - 6 VDC
- Data Readout Frequency 2.5Hz
- LDL < 0.6%[FS]
- Interface ModBus 1 Wire TTL
- Options and Accessories
 - CONNECT Interface
 - Cuvette Pressure Compensation (only with CONNECT Interface)
 - External Heat Controller
 - Thermal isolated Case
 - Connection Cable
 - USB/Modbus 1 Wire TTL Adapter (Service Tool)
- Tools
 - Windows Calibration Tool
 - Windows Data Logger Tool



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FLOW^{EVO} Plus

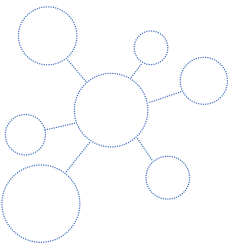


Gas	Measurement range
CO ₂	100 ppm – 100 Vol.-%
CO	2000 ppm – 100 Vol.-%
CH ₄	5000 ppm – 100 Vol.-%
SF ₆	50 ppm – 100 Vol.-%
C ₂ H ₄	2000 ppm
SO ₂	2000 ppm
SO ₂ F ₂	100 ppm – 6 Vol.-%
N ₂ O	500 ppm
CH ₃ Br	5 – 40 Vol.-%

- Single Gas NDIR Sensor Two Channel Detector with Reference
- Power 10 - 26 VDC
- Data Readout Frequency 10Hz
- LDL < 0.2%[FS]
- Interface RS232 and 485 / Optional Analog
- Constant Heated (PID)
- Cuvette Pressure Compensation
- Options and Accessories
 - Thermal isolated Case
 - External Modbus 1 Wire TTL/RS232 Adapter available
 - USB/RS232 Adapter (Service Tool)
 - USB/RS485 Adapter (Service Tool)
- Tools
 - Windows Calibration Tool
 - Windows Data Logger Tool



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FLOW^{EVO} Pro

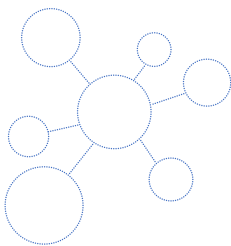


Gas	Measurement range
HVAC Multi Gas	1000 ppm & 2000 ppm

- Single Gas NDIR Sensor Two Channel Detector with Reference
- Power 3.3 - 6 VDC
- Interface ModBus 1 Wire TTL
- Range changeable by user (1000/2000ppm)
- Target Gas selectable by user (one of 20) Reference Gas : R134a
Selectable Gas : R22,23,32,123,125,404a,407a,407c,407f,449a,410a,452a,454b,455a,507,513a,515b,1233zd,1234yf1234ze
- Options and Accessories
 - CONNECT Interface
 - Pressure Compensation only with CONNECT Interface
 - External Heat Controller
 - Thermal isolated Case
 - Connection Cable
 - USB/Modbus 1 Wire TTL Adapter (Service Tool)
- Tools
 - Windows Calibration and Datalogger Tool



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SILAREX

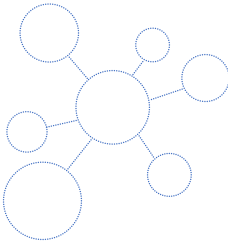


Gas	Measurement range
CO ₂	20 Vol.% – 40 Vol.-%
CO	500 ppm - 5 Vol.-%
CH ₄	500 ppm – 1000 ppm
NO	2000 ppm
SO ₂	1000 - 2000 ppm
N ₂ O	300 ppm - 1000 ppm

- Triple Gas NDIR Sensor Four Channel Detector with Reference
- Power 24 VDC + 10%
- Data Readout Frequency 2.5Hz
- LDL < 0.6%[FS]
- Interface ModBus 1 Wire TTL / RS485
- Internal cross compensated
- Options and Accessories
 - External high performance Heat Controller
 - Thermal isolated Case
 - Connection Cable
 - USB/RS485 Adapter (Service Tool)
- Tools
 - Windows Test Tool



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SILAREX TOC/WR

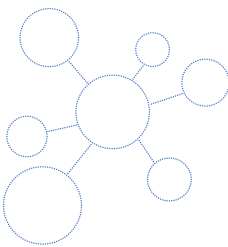


CO ₂	Measurement range
CH1	0-100 ppm
CH2	0-1000 ppm
CH3	0-10000ppm
CH1	0-100 ppm
CH2	0-1000 ppm
CH3	0-25000ppm

- Single Gas NDIR Sensor Four Channel Detector with Reference
- Three Ranges mapped. Linearity failure each Channel typical $< \pm 1\%[FS]$
One wide range spline interpolated output Signal
- Power 24 VDC + 10%
- Data Readout Frequency 2.5Hz
- LDL $< 0.6\%[FS]$ (each Channel)
- Interface ModBus 1 Wire TTL / RS485
- Cuvette Pressure Compensation
- Options and Accessories
 - External high performance Heat Controller
 - Thermal isolated Case
 - Connection Cable
 - USB/RS485 Adapter (Service Tool)
- Tools
 - Windows Test Tool



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SILAREX TOC/WR Plus

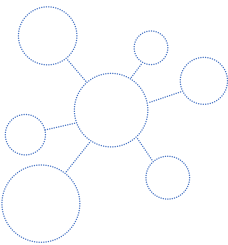


CO ₂	Measurement range
CH1	0-100 ppm
CH2	0-1000 ppm
CH3	0-10000ppm
CH1	0-100 ppm
CH2	0-1000 ppm
CH3	0-25000ppm

- Single Gas NDIR Sensor Four Channel Detector with Reference
- Three Ranges mapped. Linerity failure each Channel typical $<\pm 1\%$ [FS]
One wide range spline interpolated output Signal
- Power 24 VDC + 10%
- Data Readout Frequence 10Hz
- LDL $< 0.2\%$ [FS] (each Channel)
- Interface RS232 / RS485
- Cuvette Pressure Compensation
- Integrated high performance Heat Controller
- Options and Accessories
 - Thermal isolated Case
 - Connection Cable
 - USB/RSRS232 or USB/RS485 Adapter (Service Tool)
- Tools
 - Windows Test Tool



smartGAS Analytic Gas Sensor Applications



CO_2 TOC/COD Water Analytic
CO₂ Capturing, Storing, Transport
Emission, Process Control
Waste Water Plants
Air Quality

CO Emission, Process Control
Human Breath Control
Air Quality

CH_4 Emission, Steel Hardening, Biogas,
Human Breath Control
Ruminant Emission
Waste Water Plants

SF_6 High voltage Switchgear

C_2H_4 Human Breath Control
Food Storage and Ripening Control

SO_2 Emission, Soil Analytic, Solid Analytic

N_2O Emission, N₂O Storage
Medical Quality Control

SO_2F_2 Fumigation, Pest Control

CH_3Br Fumigation, Pest Control

HAVAC Cooling Systems, Heat Pumps, A/C
Production, Service, Device Recycling,
HAVAC Recycling,
Cold Storage Warehouses