



# Electro Optical Components, Inc.

5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403




Toll Free: 855-EOC-6300

[www.eoc-inc.com](http://www.eoc-inc.com) | [info@eoc-inc.com](mailto:info@eoc-inc.com)



## FLOW<sup>EVO</sup> NDIR Dual Channel Gas Sensors

The FLOW<sup>EVO</sup> is a high-performance NDIR gas sensor product line specifically designed for the analysis of gases in process analysis. The sensors are "ready to use", low-maintenance and have low detection limits. They are highly selective against interfering gases and have flexible interfaces. In addition, they are temperature and drift compensated and have a compact design. The FLOW<sup>EVO</sup> product line from smartGAS is characterized by measuring accuracy, compact design and easy handling. The sensors can detect a wide range of measurable gases and are particularly useful where extreme precision and reliability are required. They are ideal for various applications, including process metrology, high voltage technology with SF6, emission measurement, pest control, biogas analysis, and fruit storage & ripening gas control, CO2 capturing ... and much much more

	FLOW <sup>EVO</sup>	FLOW <sup>EVO</sup> PLUS	FLOW <sup>EVO</sup> PRO
			
<b>Gases</b>	One	One	One/Selectable
<b>Applications</b>	Standard Gas measurement in Industry, Research and Environment Control	Applications. Very low Noise and LDL Low T90 time and high output frequency	Universal usage for control Applications
<b>Reference Channel</b>	Yes	Yes	Yes
<b>Linearity Error</b>	≤±1% (FS)	≤±1% (FS)	≤±3% (FS)
<b>Ranges</b>	0...50 ppm up to 0..100Vol.%	0...50 ppm up to 0..100Vol.%	0...50 ppm up to 0..100Vol.%
<b>T90 Time vs Noise</b>	≤14sec ≤±0.1%[FS] ≤3sec ≤±1.0%[FS]	≤3sec ≤±0.075%FS	≤14sec ≤±0.1%[FS] ≤3sec ≤±1.0%[FS]
<b>Detection Limit</b>	≤±0.6%[FS]	≤±0.05%[FS]	≤±0.05%[FS] of smallest range
<b>Cycle Time (readout)</b>	Max. 2.5Hz	Max. 10Hz	Max. 2.5Hz
<b>Power Supply</b>	3.3..6VDC	10...26VDC	3.3..6VDC
<b>Pressure Compensated</b>	Optional w External Coontroler	Optional Internal	Optional w External Coontroler
<b>Digital Interface</b>	TTL 1 wire	RS232/RS485	TTL 1 wire
<b>Analog Interfaces</b>	Optional w External Coontroler	Optional Internal	Optional w External Coontroler

<b>Heat Stabilization</b>	Optional w External Controller ±1.0K	Internal w High Performance Controller ±0.5K	Optional w External Controller ±1.0K
<b>Cuvette Material</b>	AL(Standard) Stainless / Peek (Depends on gas type and application)		
<b>Cuvette Length</b>	Up to 300mm	Up to 300mm	Up to 300mm
<b>Gas In/Outlet</b>	3/5mm Rubber Tube Fitting (Standard) Optional : 4/6mm Rubber Tube/Quick Connector/PTFE/Stainless Steel		
<b>Custom Software</b>	No	Possible	No
<b>External Casing</b>	AL Casing with thermal Insulation (Customized on Request)		
<b>Options</b>	External Interface Pressure Compensation RS232/RS485 Analog Interface		External Interface Pressure Compensation RS232/RS485 Analog Interface
<b>Standard Gases</b>	CO2 CO CH4 C2H4 SO2 N2O CH3Br SO2F2 SF6 NH3 CnHm; Other gases request		Up to 20 Freon; Up to 20 CnHm
<b>Additional Options</b>	Interface Converter / Power Supplies / Cabling / Gas Pumps / Filter / Tubing / Integration / Customized Gases and Ranges / Calibration Service		