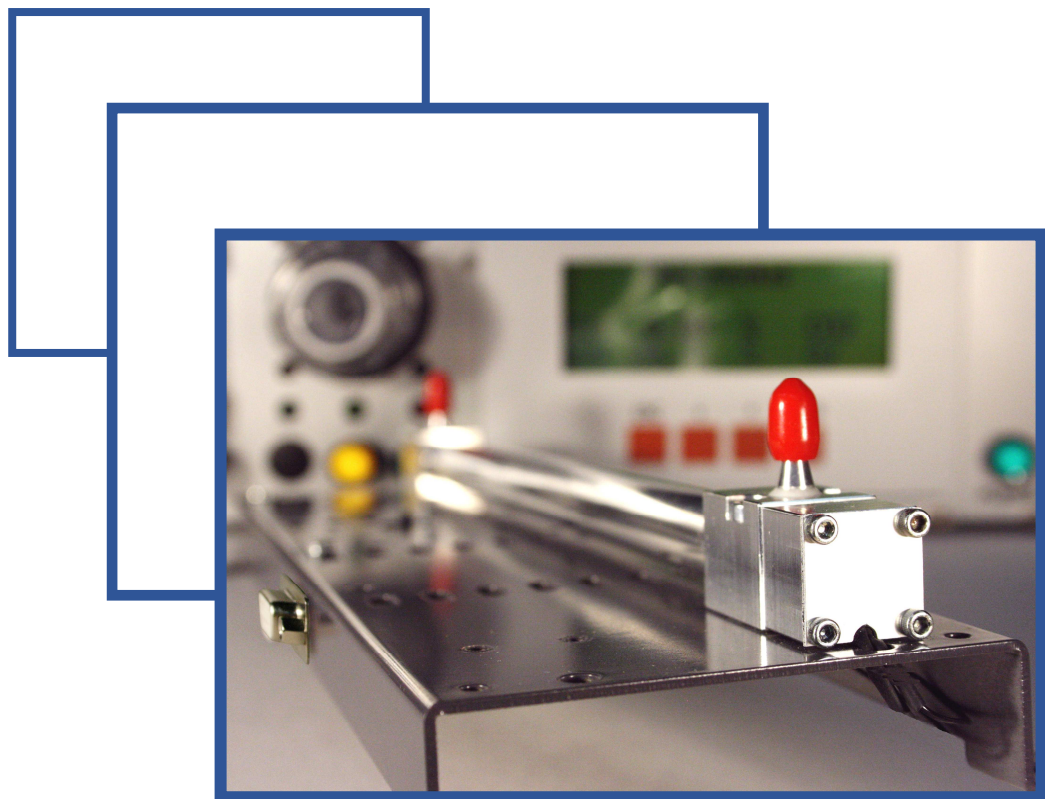


# NDIR8000

## Infrared Gas Sensor Module



- compact NDIR bench for single and multiple gas measurement
- TOC (Total Organic Carbon) measurement
- standard gas CO<sub>2</sub>, additional gases (up to 6 NDIR) on request
- O<sub>2</sub> and NO as electrochemical cells adaptable
- very stable and reliable by reference channel, temperature and pressure compensation
- no moving parts

# NDIR8000

## Infrared Gas Sensor Module

### TECHNICAL DATA

Mode of operation	NDIR (Non-Dispersive-InfraRed-Absorption) reference channel technology temperature and pressure compensation		
Gases	NDIR	CO <sub>2</sub> CO	100ppm, 1000ppm, 10vol% 5000ppm, 10vol%
	EC (extern)	O <sub>2</sub> NO	0...22vol% 2500ppm / 5000ppm
			additional NDIR gases on request
Output signal		digital analog	RS232 (12Bit ADC) 4...20mA (option)
Operation temperature	5...55°C (41...131°F)		
Mass	0.8 kg (1.7lbs)		
Power supply	+15VDC...25.2VDC 100mA @ +24VDC (TOC-Version) 150mA @ +24VDC (dual cuvette)		
Dimensions	320 x 90 x 60 mm (length x width x height)		
Zero point drift	< 2% of the measuring interval / 24h		
Sensitivity drift	< 2% of the measured value / week		
Influence of temperature	< 0.1% of the measuring interval / K		
Linearity	< 3% of the measuring interval		
Influence of air pressure	< 0.1 % of the measuring interval / hPa (760...1160hPa)		
Indicator ripple	< ± 0.2 ppm in the range of 500 ppm CO <sub>2</sub>		
Gas connections	Threaded hose coupling DM 4/6 for hose DN 4/6		
Gas flow	constant flow necessary range 20...100l/h, max. flow difference ± 2l/h		
Permissible gas pressure	20...200hPa gauge pressure		
Warm up time	20s (quick start) 60min (full specification)		

january 2014 – subject to chance

### A SUCCESSFULL NAME – A LONG TRADITION

SAXON Junkalor is a privately owned high-tech company with many years of experience in the field of metrology. In the 100-plus years since its establishment the company has developed into a European leading specialist in gas and particle analysis. Junkalor masters physics and technique of gas and particle measurement from sensing device to complete analyzer.