

Emission analyser

Model EasyCEM



With the analyser EasyCEM gases can be measured such as CO, CO₂, NO, SO₂, SF₆, THC with the NDIR method or with PID, as well as gases like NH₃, HCl and CH₄ with a TDLS (tunable diode laser). By extending further modules with NDUV or electrochemical measuring principles, it is possible to measure gases like O₂, O₃ or NO₂.

The analyser is particularly suitable for application in industrial process gas analysis, control and regulation of processes as well as in laboratories.

EasyCEM is a single or multi component analyser to measure available simultaneously up to 4 gases. Due to the particular design it can be adapted on the respective measurement.

A number of possible options are to ensure the use of the analyser EasyCEM for many applications.

Highlights

- For measuring of 1 to 4 gases
- Ranges in ppm and Vol % range
- RS232 interface
- 19" rack or table housing
- Easy handling

Optional

- Integrated pump
- Output: 0-10V
- Alarm contacts
- Input filter
- Flow meter

Product Specifications

Measuring principle: NDIR (Infrared absorption), NDUV (UV-absorption)
 TDLS Tunable Diode Laser Spectrometry)
 EC (Electro chemical sensor)

Measurement ranges* (min.):	CO ₂	0 ... 40	ppm (NDIR)
	NO	0 ... 1000	ppm (NDIR)
	NO ₂	0... 500	ppm (NDUV)
	SO ₂	0 ... 100	ppm (NDIR)
	CO	0 ... 500	ppm (NDIR)
	THC	0 ... 5	% Vol (NDIR)
	VOC	0-50	ppm (PID)
		0-5000	ppm (PID)
	SF ₆	0 ... 50	ppm (NDIR)
	NH ₃	0 ... 100	ppm (TDLS)
	HCL	0 ... 50	ppm (TDLS)
	CH ₄	0 ... 100	ppm (TDLS)
	O ₂	0 ... 25	% (EC, or zirkonia)

Accuracy: ± 2 % of range

Repeatability: ± 0.5 % (at zero)
 ± 0.5 % (at span)

Signal response time: t₉₀ < 2 sec. (at 60 l/h)
 t₉₀ < 1 sec. (at 180 l/h)

Operating temperature: 0 ... 45 °C

Temperature coefficient: < 1% of range / 10K

Warm-up time: < 3 min. (full specification)

Output: digital, RS 232

Analog, 0 ... 10V DC (option)

Input voltage: 230V/50Hz or 115V/60Hz

Dimension: 19" , 4HU