EU-5000 Flue gas analyzer for thermal installations and motor engines

Analysis of up to 12 constituents:

Electrochemical sensor system:
O_2, CO, NO, NO_2, SO_2

Infrared technology:

CO, CO_2, H_xC_y (propane, hexane)
gas temp., oil temp., air temp.

Calculates:

Lambda (Brettschneider) NO_X
Flue gas loss qA, efficiency

Option:

External gas conditioner

Ideal for testing:

Engines
Furnaces
Diesels
Boilers
Turbines
Low NO_x

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Technical Data EU-5000

General

Calculates efficiency	0 - 100 %	**Calculates lambda**	1 - ∞ or as per Brettschneiders formula	**Display**	LCD 4 lines 20 chars/line	**Printer**	Impact printer 24 chars/line
Storage temperature	-4°F -122°F	**Working temperature**	41°-104°F	**Weight**	15.43 pounds	**Dimensions**	17.71 x 13.38 x 5.11 inch
Sensor line	11.48 feet	**AC power**	85 - 264 VAC 47 - 60 Hz	**Calibration**	100 sec	**Calibration NDIR**	1.5 min

Measuring range

O2		**CO low opt.**		**CO2 NDIR**		**HC Propane**	
Range	0 – 20.9% Vol.	Range	0 – 2'000 ppm (4'000 ppm max.)	Range	0 - 20,0% Vol.	Range	0 - 60'000 ppm
Resolution	0,1% Vol.	Resolution	1 ppm	Resolution	0,1% Vol	Resolution	1 ppm
Response	T_{90} < 20 sec	Response	T_{90} < 45 sec	Response	T_{10-90} < 4 sec	Response	T_{10-90} < 4 sec
O2 Automotive opt.		**CO high NDIR**				**HC n-Hexane**	
Range	0 - 100% Vol.	Range	0 – 150'000 ppm			Range	0 - 30'000 ppm
Resolution	0,1 % Vol.	Resolution	10 ppm			Resolution	1 ppm
Response	T_{90} < 5 sec	Response	T_{10-90} < 4 sec			Response	T_{10-90} < 4 sec
NO		**NO2 opt.**		**SO2 opt.**		**Temperature Ambient/Oil**	32°-842°F
Range	0 – 1'000 ppm (2'000 ppm max.)	Range	0 – 200 ppm (500 ppm max.)	Range	0 -2'000 ppm (3'000ppm max.)	**Temperature Gas**	32°-842°F 32°-1472°F opt.
Resolution	1 ppm	Resolution	1ppm	Resolution	1ppm		
Response	T_{90} < 45 sec	Response	T_{90} < 65 sec	Response	T_{90} < 45 sec		
NO Automotive opt.							
Range	0 - 5'000 ppm						
Resolution	1 ppm						
Response	T_{90} < 20 sec						

Tolerances

O2	± 0.4%	**CO low opt.**	± 0.1 displ.value, min. ± 12 ppm	**CO2 NDIR**	0 - 16.00%: ± 0.5% absolute or ± 5.8% relative	**HC Propane**	0 – 4'000 ppm: ± 9 ppm relative
O2 Automotive opt.	0 – 25%: ± 0.16%	**CO high (NDIR)**	0-100'000 ppm: ± 500 ppm abs. or ± 6% relative		16.01 - 20.00% ± 8.8% relative		4'001 - 30'000 ppm: ± 8.8% rel.
	25.1 – 100%: ± 1%		100'000 - 150'000 ppm: ± 8.8% relative				30'001 - 60'000 ppm: ± 12.8% rel.
NO	± 0.1 displ.value, min. ± 10 ppm	**NO2 opt.**	± 7 ppm	**SO2 opt.**	± 20 ppm	**HC n-Hexane**	0 – 2'000 ppm: ± 9 ppm relative
NO Automotive opt.	0 - 4'000 ppm: ± 50 ppm abs. or ± 8% relative						2'001 - 15'000 ppm: ± 8.8% rel.
	4001 - 5'000 ppm: ± 10% relative						15'001 - 30'000 ppm: ± 12.8% rel.

Temperatures		**Device**	**Probe**	**Total**
	32°-212°F	± 33.8°F	± 35.6°F	± 37.4°F
	213.8°-392°F	± 1%	± 2%	± 3%
	393.8°-572°F	± 35.6°F	± 39.2°F	± 42.8°F
	573.8°-1472°F	± 37.4°F	± 42.8°F	± 48.2°F

Technical data subject to change without notice. Technical modifications reserved.

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