

VARIO *luxx* SYNGAS

PORTABLE SYNGAS ANALYZER
for monitoring of syngases
at various industrial sites



O₂

CO

CO₂

CH₄

H₂

N₂

**Suitable for semi-continuous measurements
of "syngas" from:**

- **Steel industry: coke oven gas / blast furnace gas**
- **Biomass or coal catalytic oxidation (gasification)**
- **Waste gasification - plasma gasification process**
- **Steam reforming of liquid hydrocarbons (refinery gas ect.)**
- **Flare gases, reseach and others**



since 1984 ®

AIR fair
EMISSION MONITORING SYSTEMS

Over 30 years of innovative gas analysis!

VARIO

luxx SYNGAS

TECHNICAL SPECIFICATIONS

VARIO *luxx* - SYNGAS

Portable analyzer with O₂ - CO - CO₂ - CH₄ - H₂ and H₂S

Measurement components	Method	Meas. range (0...min / max) *	Resolution	Accuracy **
O ₂ Oxygen (long-Life)	ECS	0 ... 25.00 %	0.01%	0.2%
O ₂ Oxygen	PM	0 ... 25.00 %	0.01%	0.1%
H ₂ Hydrogen	TCD	0 – 10% / 30% / 100%	0.01%	± 0.2 % / 2% measuring value
CO Carbon monoxide	NDIR	0 ... 100 %	0.01%	± 0.1 Vol %
CO ₂ Carbon dioxide	NDIR	0 ... 100 %	0.01%	± 0.3 Vol %
CH ₄ Methane	NDIR	0 ... 100 %	0.01%	± 0.2 Vol %
H ₂ S Hydrogen sulfide	ECS	0 ... 2,000 / 5,000 ppm	1 ppm	±5 ppm or 5% of reading

* overload range of ECS is usable only for short duration

** which ever is larger

*** with hourly zeroing

Calculated components

Calorific value 0 ... 50 MJ/m³ or MJ/kg

N₂ balance difference to 100%

GENERAL TECHNICAL DATA

Operating system	LINUX
Display, operation	7" TFT (800 x 480 px) color display, backlit, with touch and swipe operation
Data storage type	10,000 data sets internal and external USB-Stick
Interface to PC / Notebook	Ethernet, Bluetooth, WLAN, RS485
Data transfer over cable / wireless	RS485, RJ45 (Ethernet) / Bluetooth, WLAN
Analog output 4 ... 20 mA	8 channel, user free configurable
Analog input 4 ... 20 mA	4 channel, user free configurable
Universal analog input - AUX	0 ... 10 Vdc / 4 ... 20 mA / K-type / RS485
Mains free operation	Li-Ion , 48 Wh, for appr. 1 hr „stand-by“ (optional additional battery, 48 Wh Li-Ion)
Operating temperature	41°F ... 122°F; RH up to 95 % not condensing
Storage temperature	-4°F ... 122°F
Power supply	86 ... 265 Vac / 47 ... 63 Hz / 105 W (up to 600 W with heated sampling line)
Protection class	IP20 (or IP42 inside transport case)
Dimensions	(W x H x D) 16.92" x 11.41" x 5.9" (430 x 290 x 150 mm)
Weight	appr. 16.5lbs (7.5 kg), for minimal configuration



Portable SYNGAS washing device



Gas sampling probe with heated filter and heated sampling line for use at raw (dirty) SYNGAS with heavy hydrocarbons or tar

Data subject to change without notice

MRU Instruments, Inc.
Humble, Texas 77338
Tel.: (832) 230 - 0155
Fax: (832) 230 - 1553
info@mru-instruments.com
www.mru-instruments.com

Support and sales by:

