



We care about the environment

INDUSTRIAL MEASUREMENTS

VARIO plus INDUSTRIAL



O₂

CO

NO

NO₂

SO₂

H₂S

CO₂

HC

H₂

°C / °F

m/s / ft/s

Pa
mbar
"H₂O

EXCESS AIR
LOSSES
EFFICIENCY

FAST
PRINTER

RS 232





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VARIO plus INDUSTRIAL

- ▶ Semi continuous control measurements of industrial firings
- ▶ Compliance testing of engines, turbines, boilers and furnances
- ▶ Emission monitoring of all combustion facilities

The VARIOplus Industrial combines NDIR-technology and electrochemical sensors. This combination ensures a maximum of precise measurement results. Through its compact design and low weight the VARIOplus Industrial is easy to use at difficult sites. A modern, rugged whole metal case design, with robust, shockproof PU side covers a new, high speed line printer with easy paper loading mechanism makes this new unit the number one choice for mobile emission monitoring.

Simultaneous measurement of up to 9 gases (6 electrochemical and 3 NDIR)!

Important features

- ▶ Automatic selftest of soft- and hardware functions
- ▶ Large, high-contrast, backlit graphical display
- ▶ All measuring data at a glance
- ▶ Integrated, electrical gas cooler unit
- ▶ Automatic condensate pump
- ▶ Battery and mains power operation
- ▶ Fuel types user selectable
- ▶ Reference oxygen user selectable
- ▶ Automatic print- and data storage program
- ▶ RS 232 data transfer to PC
- ▶ Internal measuring data storage for approx. 7.500 measuring data
- ▶ CO-sensor purge by means of a programable CO shut-off valve
- ▶ Integrated high-speed thermo printer
- ▶ Automatic interval measurement program
- ▶ Automatic zero calibration by means of an integrated solenoid valve
- ▶ Measuring data visualization for PC

Further options:

- ▶ MMC Card up to 128 MB with data logger software
- ▶ Universal analog input for 0 - 10 V or 4 - 20 mA
- ▶ Sample probe with heated filter
- ▶ Heated gas sampling line with temperature regulation, length 3 m or 5 m
- ▶ Differential pressure measurement ± 100 hPa
- ▶ Gas velocity measurement by means of additional Pitot tube and mass flow calculation [Nm³/s]
- ▶ 8 analog outputs 4 - 20 mA
- ▶ External keyboard incl. software
- ▶ Hand monitor with 10 m cable
- ▶ Robust aluminium frame transport case with trolley and wheels
- ▶ Analyzer heating device (antifreeze protection)

Electrochemical measurements:

O ₂ _____	0 - 21,0 %
CO _____	0 - 10.000 ppm
NO _____	0 - 4.000 ppm
H ₂ S _____	0 - 1.000 ppm
NO ₂ _____	0 - 1.000 ppm
SO ₂ _____	0 - 4.000 ppm
H ₂ _____	0 - 2,0 %

Infrared measurements:

CO ₂ _____	0 - 20,0 %
CO _____	0 - 10.000 ppm / 10,0 %
SO ₂ _____	0 - 10.000 ppm
CH ₄ _____	0 - 10.000 ppm / 5,0 %
C ₃ H ₈ _____	0 - 5.000 ppm / 2,0 %

Other measurements:

Temp _{AIR} _____	0 - 300°C *
Temp _{GAS} _____	0 - 1.700°C *
(* with adequate probes)	
Draft/Diff. Pressure	± 100 hPa

Further specifications:

Operation temp.	___ +5 - +45°C
Storage temp.	___ -20 - +50°C
Power supply	___ 110 or 230 Vac or ext. 12 Vdc

Device without probe and hose
Dimensions ___ 438x290x152 mm
Weight _____ approx. 6,5 kg

Transport case with trolley
Dimensions ___ 530x490x310 mm
Weight _____ approx. 9,0 kg

Dealer's stamp:



MRU

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