



Measuring instruments for professionals

BRIGOVISION II

with new functions and new design

**All-in-one-instrument
for measuring
heating
ventilating
air conditioning
systems**



BRIGOVISION II

now with the following additional functions:

- Additional fuels: pellets and rapeseed oil
- Average value measurement
- Flush pump switching per pushbutton
- Easy menu operation
- Big water trap with optimal particle filter

Flue gas analysis

Measuring of	Calculating of
Oxygen	Carbon dioxide
Carbon monoxide	Carbon monoxide undiluted
Flue gas temperature	Lambda
Ambient air temperature	Stack loss
Differential pressure	Combustion efficiency
Nitrogen oxide (Option)	Nitrogen Oxide _{undiluted} NO _x (Option)

Ventilating and air conditioning

Optional sensors for

- Gas leak detection
- CO in ambient air
- Air velocity
- Surface temperature
- Humidity in building materials

BRIGON fixed price service

- after 1 year use € 95
- after 2 years use € 165
- after 3 years use € 95
- after 4 years use € 305

Includes one year warranty extension, complete maintenance, in 2. year O₂ sensor replacement and in 4. year O₂ and CO sensor replacement, calibration certificate for all measuring channels on TÜV approved test stand, cleaning and software upgrade

Technical Data

BRIGOVISION II basic set

Item No.: 3300 includes

- flue gas analyser
- O₂-sensor
- CO-sensor
- Pressure and draught sensor
- Ambient air probe
- Grip with cable and tube
- Probe with thermocouple
- Cone with self-locking-system
- Ni/MH-battery
- Battery charger
- O-ring set
- Lubricant oil
- Infrared-interface for printer
- RS 232 – Interface to PC and sensors for ventilating- and air-conditioning systems

Option:

NO-sensor with PCB
Item No.: 3062

Accessories:

Gas leak detection probe with grip for gas leak detection.
Item No.: 3094

CO-probe with grip for CO air quality measurement
Item No.: 3092

Non-Invasive-Humidity probe for indication in building materials
Item No.: 3097

Thermoanemometer with grip for velocity measurement
Item No.: 3093

BRIGON-Flow cone 300 x 300 mm for velocity measurement
Item No.: 3098

Dew point probe for surfaces
Item No.: 3096

Bluetooth interface for online measurement with pocket computer or notebook
Item No.: 3366

Your BRIGON dealer

Measuring of:	O₂, CO, temperatures (flue gas/air), differential pressure, NO (Option)
Calculating of:	Stack loss qA, CO₂, Lambda, Eta CO _{undiluted} (based on 0% O ₂ other reference values can also be set) NO _{undiluted} (based on 0% O ₂ , as above) - (Option) NO _x (Option)
O₂-reading:	Range: 0...21 Vol% Resolution: 0,1 Vol% Method: electrochemical sensor Max. deviation: ≤± 0,3 Vol% Response time (t _{0,97}): ≤ 50 s Sensor lifetime: > 2 years Sensor control: automatic with status indication Fuels: light oil, natural gas, liquid gas, wood, pellets, rapessed oil
CO-reading:	Range: 0... 2000 ppm (short-time overstressing to 4000 ppm possible) Resolution: 1 ppm Method: electrochemical sensor H ₂ -compensated Max. deviation: ≤± 20 ppm (to 400 ppm) ≤± 5% of reading (from 400 ppm) Sensor lifetime: > 2 years Sensor control: automatic Sensor protection: automatic cleansing with flush pump
NO-reading: (Option)	Range: 0... 1000 ppm Resolution: 1 ppm Method: electrochemical sensor Max. deviation: ≤± 5 ppm (to 100 ppm) ≤± 5% of reading (from 100 ppm) Sensor lifetime: > 2 years Sensor control: automatic
Flue gas temperature reading:	Range: -50 °C... +1300 °C, 0...400 °C TÜV approved Resolution: 0,1 °C Probe: thermocouple K (NiCr-Ni) IEC 584 class 1 Max. deviation: ≤±2°C to 125°C, ≤±3°C to 250°C, ≤±4°C from 250°C Response time: based on 98%-value ≤ 50 s
Air temperature reading:	Range: -20 °C... +100 °C, 0...80 °C TÜV approved Resolution: 0,1 °C Probe: thermocouple K (NiCr-Ni) IEC 584 class 1 Max. deviation: ≤±1 °C Response time: based on 98%-value ≤ 120 s
Differential pressure reading:	Range: -100 mbar... +100 mbar Resolution: 0,01 mbar Method: piezoresistive sensor Max. deviation: ≤± 0,02 mbar (to ± 5 mbar), ≤± 1% of reading (from ± 5 mbar)
Additional data:	Battery control: automatic with indication of capacity Display: graphic-display with backlight, 128 x128 pixel visible part 63 x 63 mm Gas sampling: excenter diaphragm pump Filter: combined water trap and particle filter Weight: flue gas analyser: approx. 1000g Dimensions: 95 x 250 x 50 mm Power supply: Ni/MH-battery, intelligent quick charging in 4 h, instrument operation during charging Stocking temperature: -20 °C...+50 °C Working temperature: +5 °C...+40 °C Interfaces: RS 232 to PC and various probes for ventilating- and air conditioning-systems, infrared interface to printer, bluetooth interface, adapter for online measurement

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