

ecom-J2KNpro

The powerful portable analyser with radio remote control for bridging distances between measuring point and adjustment point.

Tested in accordance with
EN 50379-2 and 1st BImSchV



MOBILE FLUE GAS ANALYSIS

Made in Germany



Reliable

Precise measurement results even at low outside temperatures thanks to internal device heating



Efficient

Fast measurement results thanks to the biggest pump available for portable analysers



Safe

Smooth operation thanks to multi-stage sample gas filtering



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ecom[®]
Measurement Technology

„Precisely measured values are essential for an optimal combustion process.“

THE PROFESSIONAL SOLUTION

Inspection and adjustment work on medium and large combustions



- Up to 6 gas sensors possible
- Radio remote control unit with coverage of up to 70 m
- Electronic level monitoring with automatic condensate draining
- CO sensor overload protection with fresh air purge without measurement interruption
- Integrated soot measurement
- H₂ ready and solid fuel types analysis possible

● = Basis EC ● = Optional EC ● = Optional NDIR; ● = Optional Pellistor

O₂ CO NO NO₂ CO % SO₂ H₂ H₂S CO₂ CH₄ C_xH_y

Technical data		√ Standard • Option	
Measured values	Range	Resolution	Accuracy * = Higher value prevails
Maximum number of gas sensors			6
O ₂	0...21 %	0,1 vol. %	± 0,3 vol. %
CO (H ₂ -comp.)	0...2.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of reading*
CO (n. H ₂ -comp.)	0...20.000 ppm	1 ppm	± 40 ppm / 3 % of reading*
CO% IR-bench	0...10 vol. %	0,001 vol. %	± 0,02 vol. % / 3 % of reading*
CO ₂ IR-sensor	0...100 vol. %	0,1 vol. %	Up to 5 % of upper range value
CO ₂ IR-bench	0...20 vol. %	0,1 vol. %	± 0,3 vol. % / 3 % of reading*
NO	0...5.000 ppm	1 ppm	± 5 ppm / 5 % of reading*
NO _{ExtraLow}	0...300 ppm	0,1 ppm	± 2 ppm / 5 % of reading*
NO ₂	0...1.000 ppm	1 ppm	± 5 ppm / 5 % of reading*
NO _{2Low}	0...100 ppm	0,1 ppm	± 5 ppm / 5 % of reading*
SO ₂	0...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*
SO _{2LowCO}	0...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*
SO _{2Low}	0...100 ppm	0,1 ppm	± 5 ppm / 5 % of reading*
H ₂	0...20.000 ppm	1 ppm	± 50 ppm / 5 % of reading*
H ₂ S	0...1.000 ppm	1 ppm	± 10 ppm / 5 % of reading*
CH ₄ IR-sensor	0...5 vol. %	0,01 vol. %	± 0,2 vol. % / 5 % of reading*
C _x H _y Pellistor	0...4 vol. %	0,1 Vol. %	
C _x H _y (CH ₄) IR-bench	0...3 vol. %	0,001 vol. %	± 0,005 vol. % / 3 % of reading*
C _x H _y (C ₃ H ₈) IR-bench	0...2.000 ppm	1 ppm	± 4 ppm / 3 % of reading*

Technical data	
Calculation values	Range
CO ₂	0...CO _{2max}
Combustion efficiency (ETA)	0...120 %
Excess air (Lambda)	>1
Losses qA	0...100 %
CO _(U) undiluted	x ppm
Dew point	x ° C
mg/m ³	x mg/m ³
mg/kWh	x mg/kWh
O ₂ reference	x % O ₂
Other measured values	Range Resolution Accuracy
T-Gas	0...500 °C 0,1 °C ± 2 °C / 1,5 % of reading*
	0...1.100 °C 0,1 °C ± 2 °C / 1,5 % of reading*
T-Air	0...99 °C 0,1 °C ± 1 °C
Pressure ΔP	± 100 hPa 0,01 hPa ± 0,5 hPa / 1 % of reading*

Options among others

- NO_x gas sampling hose for loss-free measurement of water-soluble NO₂ and SO₂ particles
- Gas cooler for sample drying before analysis

Heat protection shield
to protect the probe grip
against heat radiation



Probe attachments
in various lengths and temperature ranges



ecom-DP
for measuring different pressures



e.CLOUD by ecom
digital measurement and customer data management

