MRU – Kompetenz in Gasanalyse. Seit über 30 Jahren.

EMISSION SMESSTECHN



Measuring units for gas- and diesel- powered industrial vehicles as well as vehicles for underground construction

Professional handheld and compact units for exhaust (CO) and soot measurements

The low-cost, compact solution just for CO - measurements at gas-powered industrial vehicles



NOVA plus FFZ

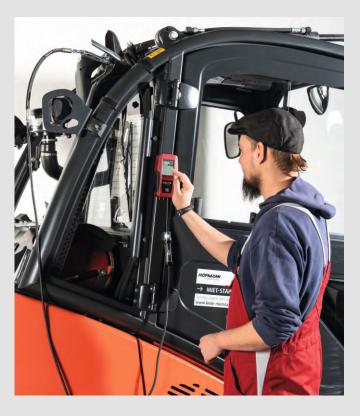
The universal unit which combines CO - and soot- measurement, incl. an electronic densitometer for determining the smoke number



DELTAsmart FFZ

CO-Analyser for gas-powered industrial vehicles

This low-cost, very compact exhaust analyser of most modern design ist perfectly suitable for a quick and reliable CO - measurement at industrial vehicles with liquid gas combustion engine.



- CO measurement
- Measuring range up to 2%, optionally up to 10% CO
- Documentation of measuring results by printer, SD card or USB interface
- Complete with sampling probe and condensate trap



400GD

Gasdetector for a reliable leak detection



- Programmable alarm thresholds (vibration)
- Acoustical, optical and haptical alarm
- Readings of concentration in ppm, % and %LEL
- TFT colour display
- Compact unit with dirt resistant keypad
- Lithium-lon battery
- Mains adapter for charging of battery



NOVAplus FFZ

CO- and Soot- Analyser for Diesel powered industrial vehicles

This universal and compact unit resolves all measuring tasks at gas- or diesel powered industrial vehicles reliably and precisely. The wireless remote control even enables measurements from the position of the drivers seat. The flexible, robust probe is specifically suitable for sampling of exhaust gases.



- Multifunctional unit for CO- and soot- measurements
- Heated probe and volume regulated exhaust sampling for precise soot spots
- Electronic densitometer for quick and precise analysis of smoke number included in standard scope of delivery
- Battery- and mains operated (strong lithium-ion battery)
- Optional O₂ and NOx - measurement
- External data memory by means of SD-card





Formation of condensate while measuring soot is avoided by heating. The specifically required exhaust volume is ensured by regulating the gas pump.



For determining the optical density (Bosch smoke number) the NOVAplus FFZ comes with a densitometer, which exactly determines the smoke number.

Technical Data

DELTAsmart FFZ

Measured values	Measuring range	Accuracy
Carbonmonoxid CO	0 1 % / 2 %	5 % of measured value
Carbonmonoxid CO "high" (Option)	0 4 % / 10 %	$\pm0,\!02~\%$ bzw. 5 % of measured value
Nitrogenmonoxid NOx (Option)	0 1.000 ppm / 5.000 ppm	5 % of measured value
Allgemeine technische Daten		
Display	2,8"TFTTouch	
Exhaust sampling	Flexible probe w. clamp and 2,25 m hose	2
Interfaces	Mini-USB, SD-card, IRDA	
Data memory	1.000 measurements internally, external	ly on Micro SD-card
Dimensions	(W x H x D) 82 x 169 x 44 mm	
Weight	appr. 390 g	

NOVAplus FFZ

Measured values	Measuring range	Accuracy
Carbonmonoxid CO	0 1 % / 2 %	5 % of measured value
Oxygen O ₂ (Option), Lambda-calculation	0 21 %	± 0,02 %
Carbonmonoxid CO "high" (Option)	0 4 % / 10 %	\pm 0,02 % bzw. 5 % of measured value
Nitrogenmonoxid NOx (Option)	0 1.000 ppm / 5.000 ppm	5 % of measured value
Carbondioxid/Carbohydrates CO₂/ CxHy (Option)	0 40 % / 100 40.000 ppm	5% (CO 2) / 3% (HC) of measured value

General technical Data

Display	2,8"TFT colour
Exhaust sampling	Flexible probe w. clamp and 3 m hose
Interfaces	Mini-USB, SD-card
Data memory	16.000 measurements internally, externally on SD-card
Dimensions	(W x H x D) 470 x 314 x 235 mm
Weight	appr. 7,4 kg

400GD

Measured values	Measuring range	oitice
Methane CH₄	0 44.000 ppm, 100 % LEL	10/M
General technical data		a D C a c
Display	1,8"TFT	5
Power suppy	Lithium-Ionen battery	taiq
Operating time	up to 20 hours	
Interfaces	Mini-USB, SD-card	+
Dimensions	(W x H xDT) 50 x 135 x 25 mm (housing), (length) 250 mm (sensor neck)	orbnical data
Weight	appr. 250 g	-5

MRU – competence in gas analysis. Since more than 30 years.



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Technical data subject to change w/o nitice. N-11874EN-K0-10-128-HWH short term overload