



IVA

INDUSTRIAL VEHICLE ANALYZERS

O₂ | CO₂ | CO | NO_x | CH₄ |



**For gas and diesel powered
industrial trucks and vehicles
in underground mining**



AMPRO1000 - IVA

CO analyzer for gas powered industrial vehicles.



This inexpensive, very compact gas analyzer with its modern design is perfectly suitable for fast and reliable CO measurement on industrial trucks with LPG internal combustion engines.

- CO measurement
- Measurement range for up t 2% - Optional 10%
- Documentation via. printer, SD Card or USB
- Including IVA probe and condensate separator

Measurement value	Measurement range	Accuracy
CO Carbon monoxide	0 ... 1 % / 2 %*	5 % of measured value
CO Carbon monoxide HIGH (OPTIONAL)	0 ... 4 % / 10 %*	± 0.02 % / 5 % of measured value
NO Nitric oxide (OPTIONAL)	0 ... 1,000 ppm / 5,000 ppm*	5 % of measured value

General technical data	
Display	2.8" TFT Touch screen
Extraction probe	Flexible probe tube with clamp and 7.38-foot sampling line
Interfaces	Mini-USB, SD-Card, IRDA
Data storage	1,000 measurements internal
Dimensions	(W x H x D) 3.23" x 6.65" x 1.73" (82 x 169 x 44 mm)
Weight	± 14 ounces (ca. 390 g)

NOVAplus - IVA

CO and opacity measurement for diesel powered industrial vehicles.



This universal analyzer measures all tasks on gas- or diesel-powered industrial trucks, reliable and precise.

It combines all the important functions for control measurements. The wireless remote control unit even allows measurements to be taken from the driver's seat. For exhaust gas extraction, the flexible probe with its sturdy clamping device.

- Measurement of CO and Opacity (Soot)
- Heated probe and regulated gas extraction for precise Opacity measurements
- Electronic densitometer for fast and accurate Soot number (Opacity) analysis
- Battery and mains operation (powerful lithium-ion battery)
- Optional O2 and NOx measurement n
- External data storage via integrated SD card

Measurement value	Measurement range	Accuracy
CO Carbon monoxide	0 ... 1 % / 2 %*	5 % of measured value
O2 Oxygen (OPTIONAL) for Lambda calculations	0 ... 21 %	± 0.02 %
CO Carbon monoxide HIGH (OPTIONAL)	0 ... 4 % / 10 %*	± 0.02 % / 5 % of measured value
NO Nitric oxide (OPTIONAL)	0 ... 1,000 ppm / 5,000 ppm*	5 % of measured value
CO2/CxHy Carbon dioxide / Hydrocarbons (OPTIONAL)	0 ... 40 % / 100 ... 40,000 ppm	5 % (CO2) / 3 % (HC) of measured value



A heated probe prevents condensation during soot measurement.

The required exhaust gas volume is monitored and controlled by the gas pump.



The Bosch-Soot number is being determined with the Densitometer, which is connected to the NOVA plus remote control unit.

General technical data

Display	2.8" TFT	Data storage	16,000 measurements internal
Extraction probe	Flexible probe tube with clamp and 9.84-foot sampling line	Dimensions	(W x H x D) 18.5" x 12.36" x 9.25" (470 x 314 x 235 mm)
Interfaces	Mini-USB, SD-Card, IRDA	Weight	± 16.3 lbs. (7,4 kg)

400GD

Gas detector for reliable gas leak detection

- ▶ Freely programmable alarm threshold (vibration)
- ▶ Audible, visual, and haptic alarm
- ▶ Display of gas concentration in ppm, % and % LEL
- ▶ TFT color display
- ▶ Handy device with dirt-resistant Membrane keypad
- ▶ Lithium-ion battery
- ▶ Power adapter for charging the battery



Measurement value	Measurement range
CH4 Methane	0 ... 44,000 ppm, 100 % UEG

General technical data			
Display	1.8" TFT		
Battery	Lithium-Ion	Dimensions enclosure	(W x H x D) 1.97" x 5.31" x 0.98" (50 x 135 x 25 mm)
Operation time	Up to 20 hours	Dimensions swan neck	Swan neck 9.84" (250 mm)
Interfaces	Mini USB	Weight	± 9 ounces (ca. 250 g)



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