

CET
Emission Analyser Series

200 series



Emission Analyser Series

Digital Emission Analyser CET 211

is used to measure the concentration of emission gases in the exhaust of petrol engines. It can be used both for exhaust check in periodic mandatory tests and for ordinary service and maintenance operations on petrol engines. The device comes standard with a printer that allows to present the result of the measurement to the customer.

Measuring Unit

CET 211 is equipped with the measuring cell AMBII from SENSORS, which meets worldwide measurement standards, whilst providing accurate and reliable emission measurement data and maintaining a light-weight, compact package. With elimination of all moving parts the lifetime operational costs of the unit remain low.

Pneumatic Unit

The water separator group is injection moulded, in order to reduce emission path length and maintenance time.

Homologations

- Conforms to ISO 3930/OIML Class 0
- MID 2004/22/CE and 2014/32/EU
- CE supplementary metrology marking
- Several national homologations



CET 210

Operating Modes

CET 210 is identical with CET 211. As it is meant to be used with a PC it comes without displays and printer.

CET 220 – Smoke Meter

CET 220 is a smoke meter for diesel engines. With its small, compact size and the power supply CET 220 can be used as a portable tool.

Features

The special design of the chamber avoids generation of turbulence inside, the walls are anti-reflective owing to a special treatment. The glass cleaning system uses two air flows generated by two fans, electronically controlled to provide alarm in case of no function or speed reduction. Two heating systems stabilise the temperature of the chamber at 90°C to avoid cooling of the smoke sample. They function alternatively in order to reduce power consumption. The pressure inside the chamber is monitored so as not to exceed 7 mBar.

CET 220 – wireless

In combination with a trolley, a Bluetooth module and a car battery the smoke meter becomes independent from any wires so that it may be used flexibly in any workshop and testing station.



MGT-300 EVO RPM Counter

MGT-300 EVO is equipped with the advanced neutral network technology that allows to identify and isolate main noise signals that could affect measurement accuracy. Thanks to this technology, MGT-300 EVO can adapt its software parameters to environmental conditions, refining and optimising the accuracy of the values returned. The optional EOBD connection interface connected to MGT-300 EVO via the handy Bluetooth connection allows to directly acquire EOBD codes.



Homologations

- Conforms to ISO 11614
- Several national homologations

Motorcycle Probe

This product is designed for working with the following systems:

- Exhaust systems with more than one tailpipe
- Exhaust systems with narrow tailpipe
- Exhaust systems with no sufficient access for a probe
- Single or twins with big engine capacity and high inter mixture of air inside the tailpipe
- Tailpipes covered by inaccessible plastic coverings



Motorcycle RPM Counter

The RPM motorcycle probe has been designed on the basis of the special neutral network technology, featuring double phonometric and accelerometric measurement, which enables the software to identify and isolate the main noise signals that physiologically could affect measurement accuracy. Thanks to this technology, the RPM counter can adapt its software parameters directly to the environmental conditions, refining and optimising the accuracy of the value returned.



Emission Analyser Series

Emission Analysers – Technical Data

		digital	black box
CO range/resolution	%vol	0–9,99 / 0,01	
CO2 range/resolution	%vol	0–19,9 / 0,1	
HC Exane range/resolution	ppmv	0–9999 / 1	
O2 range/resolution	%vol	0–25 / 0,01	
NOX range/resolution	ppmv	0–5000 / 1	
Lambda range/resolution		0,5–5 / 0,001	
RPM range/resolution	RPM	300–9990 / 10	
Oil temperature range	°C	20–150 / 1	
CO, CO2 and HC response time	sec	< 10	
O2 response time	sec	< 60	
Heating time to 20°C	min	< 10	
Measuring gas suction	l/min	4	
Automatic compensation of ambient pressure	KPA	850–1060	
Printer		integrated 24 column thermal printer	No
Display		6 backlighted LCD units	No
Power supply	V DC	12 (11–15)	
Power consumption	A DC	1,5 (3 when printing)	1,5
Operating temperature	°C	+5 +40	0 +40
Dimensions	mm	434 x 190 x 291	360 x 280 x 288
Weight	kg	5	

Smoke Meter – Technical Data

Opacity range/resolution	%	0–99,9 / 0,1
Opacity range/resolution	m-1	0–9,99 / 0,01
RPM range/resolution	RPM	300–9990 / 10
Oil temperature range/resolution	°C	20–150 / 1
Fume temp range/resolution	°C	20–400 / 1
Heating time to 20°C	min	10
Power supply	V DC	12 (11–15)
Power consumption	A DC	5 when heating on
Operating temperature	°C	0 +40
Dimensions	mm	360 x 280 x 288
Weight	kg	5

RPM Counter – Technical Data

RPM range/resolution	RPM	300–9990 / 10
Temperature range/resolution	°C	20–200 / 1
Display		LCD TFT color 3,5" 320x240 700 cd/m ²
Interface		soft touch keypad (power on included)
Power supply		inner li-ion battery pack with battery charger included
Data transmission		USB 2.0 or bluetooth
Dimensions	mm	200 x 100 x 30
Weight	kg	0,385

EOBD-300-EVO

Power supply from EOBD socket		
Standard EOBD interface		
Dimensions	mm	90 x 25 x 45

Other Accessories



NOx sensor



Bluetooth module for PC



Trolley



Trolley with support, CET 210 and CET 220

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