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Технические характеристики на анализаторы выхлопных газов компании МАНА

Модели: МЕТ 6.1, МЕТ 6.2, МЕТ 6.3.

MET 6.1

EMISSION MEASUREMENT TECHNOLOGY

STANDARD DELIVERY:



MET-SERIES

VP 135117

Emission Tester for Petrol

DESCRIPTION:

- ◆ Emission tester stands out due to limited weight and compact design
- ◆ Short warm-up time, quick measurement readiness
- ◆ Accurate analysis of gas components HC, CO, CO₂, O₂ with lambda value calculation
- ◆ Intuitive operation, clear structure in emissions testing process as set out in current guidelines 5 enable minimum cycle times
- ◆ Varied and simple network connection options LAN / WLAN (optional)
- ◆ The MAHA VCI makes EOBD analysis easy
- ◆ Innovative method for separation of condensed water thanks to active water separator
- ◆ MID type approval
- ◆ Emission testing of CNG, LPG and petrol engines possible
- ◆ Options:
 - W-LAN interface₂, O₂ with lambda value calculation

TECHNICAL DATA:

Measurable gases	HC, CO, CO ₂ , O ₂
Measuring principle Infrared spectrometry	HC, CO, CO ₂
Measuring principle Electrochemical detection	O ₂
Flow	3,5 l/min
Accuracy class	O (OIML)
On-board voltage	10 V / 30 V
Power supply	1/N/PE 110 V/230 V 50 Hz/60 Hz
Ambient temperature	0 °C - 45 °C
Operating height	-100 m - 3000 m
Dimensions total (L x W x H)	406 mm x 225 mm x 160 mm
Weight	4,6 kg
CO - Measurement range / Measured value resolution (max.)	0 - 15 % Vol. / 0,01
CO ₂ - Measurement range / Measured value resolution (max.)	0 - 20 % Vol. / 0,01
HC - Measurement range / Measured value resolution (max.)	0 - 9999 ppm / 0,1
O ₂ - Measurement range / Measured value resolution (max.)	0 - 25 % Vol. / 0,01
Lambda (calculated)	0,5 - 9,99 / 0,01

- ◆ Basic device (gas analyser) in high-quality synthetic casing with integrated display unit and keypad
- ◆ Steel mesh emission probe, 600 mm, probe tubing 8 m
- ◆ LAN interface with LAN cable
- ◆ Power supply unit 110V - 230V, 50/60Hz
- ◆ Transparent drain hose for condensed water with collecting tank
- ◆ Main filter, zero filter and condensate filter
- ◆ Electrochemical O₂ sensor
- ◆ Trigger tongs for MET 6.1 and 6.3 for inductive RPM measurement at ignition cables
- ◆ 2 replacement filters, 2 replacement seals
- ◆ Measurement software for continuous measurement without country-specific test procedure

ACCESSORIES:

VZ 911353	PC/Test Lane Module for MET 6.1 for Germany
VZ 910176	Industrial PC All-in-One
VZ 910177	Industrial PC Compact
VZ 910052	PC-Keyboard and Mouse
VZ 910165	PC Flat Screen 22 inch (TFT Standard)
VZ 910091	DIN A4 Ink Jet Colour Printer
VZ 910186	USB-WLAN Adapter
VZ 910188	USB-Ethernet adapter
VZ 910189	W-LAN Router for PC Unit
VZ 990425	W-LAN Interface MET 6.x - PC
VZ 990446	MGT 300 EVO
VZ 990281	RPM extension cable (4 m) for magnetic sensor
VZ 990284	RPM extension cable (4 m) for battery
VZ 990282	RPM cable for Power Supply
VZ 990283	RPM-Power Supply
VZ 990439	AVL DITEST SPEED 2000
VZ 910138	RPM Power Supply for AVL DISPEED
VZ 990455	Y-Adapter for MET 6.x
VZ 911205	RPM extension cable (5 m) for combi sensor
VZ 911361	MAHA VCI (W-LAN) wireless OBD module
VZ 990395	Oil temperature sensor for cars
VZ 990447	IR Oil Temperature Gauge
VZ 980039	Exhaust probe f. full-power testing max. 750°C
VZ 980040	Exhaust probe f. cars/motorcycles
VZ 975210	Equipment Trolley for MGT 5
VP 975479	Trolley for single or combi tester
VP 975667	Trolley for MET 6.x
VZ 911065	Software target data for AU I, AU II with OBD
VZ 911291	MAHA emission viewer software
VZ 975232	Pressure controller with mini-can calibr. bottle
VZ 990396	Cable 12/24 V for MET 6.x
VZ 994019	Mobility Kit MET 6.x MAHA
VZ 975533	Connecting Kit of Motorcycles via MGT
VZ 975536	Connecting Kit for Exhaust Suction System
VZ 990454	Telescopic rod for MET



MET-SERIES

VP 135036

Emission Tester for Diesel

DESCRIPTION:

- ◆ Emission tester stands out due to limited weight and compact design
- ◆ Short warm-up time, quick measurement readiness
- ◆ Time-saving and easy testing/diagnosis of opacity/particle concentration using the partial flow method with free acceleration or engine under load
- ◆ Intuitive operation, clear structure in emissions testing process as set out in current guidelines 5 enable minimum cycle times
- ◆ Varied and simple network connection options LAN / WLAN (optional)
- ◆ The MAHA VCI makes EOBD analysis easy
- ◆ Official German PTB-approval 18.09
- ◆ Instantaneous or continuous measurement
- ◆ Innovative method for separation of condensed water thanks to active water separator
- ◆ Options:
 - W-LAN interface

STANDARD DELIVERY:

- ◆ Basic device (opacimeter) opacity measurement device/ particle concentration measurement device in high-quality synthetic casing with integrated display unit and keypad
- ◆ Steel mesh emission probe, 600 mm, 2000 mm probe tubing
- ◆ LAN interface with LAN cable
- ◆ Power supply unit 110V
- ◆ 230V, 50/60Hz
- ◆ Main filter, zero filter and condensate filter
- ◆ Transparent drain hose for condensed water with collecting tank
- ◆ 2 replacement filters, 2 replacement seals
- ◆ Measurement software for continuous measurement without country-specific test procedure

TECHNICAL DATA:

Measurement principle	Extinktionsmessung
Warm-up time of the measurement chamber approx.	150 s
On-board voltage	10 V / 30 V
Power supply	1/N/PE 110 V/230 V 50 Hz/60 Hz
Dimensions total (L x W x H)	406 mm x 225 mm x 160 mm
Weight	4,6 kg
Measuring range particle concentration	1 - 1100 mg/m ³
Resolution of particle concentration	1 mg/m ³
Measurement range turbidity	0 - 100 %
Measuring range absorption coefficient	0 - 9,99 m ⁻¹
Resolution absorption coefficient	0,01 m ⁻¹

ACCESSORIES:

VZ 911354	PC/Test Lane Module for MET 6.2 for Germany
VZ 910176	Industrial PC All-in-One
VZ 910177	Industrial PC Compact
VZ 910052	PC-Keyboard and Mouse
VZ 910165	PC Flat Screen 22 inch (TFT Standard)
VZ 910091	DIN A4 Ink Jet Colour Printer
VZ 910186	USB-WLAN Adapter
VZ 910188	USB-Ethernet adapter
VZ 910189	W-LAN Router for PC Unit
VZ 990425	W-LAN Interface MET 6.x - PC
VZ 990446	MGT 300 EVO
VZ 990281	RPM extension cable (4 m) for magnetic sensor
VZ 990284	RPM extension cable (4 m) for battery
VZ 990282	RPM cable for Power Supply
VZ 990283	RPM-Power Supply
VZ 990439	AVL DITEST SPEED 2000
VZ 910138	RPM Power Supply for AVL DISPEED
VZ 990455	Y-Adapter for MET 6.x
VZ 911205	RPM extension cable (5 m) for combi sensor
VZ 911361	MAHA VCI (W-LAN) wireless OBD module
VZ 990395	Oil temperature sensor for cars
VZ 990447	IR Oil Temperature Gauge
VZ 980039	Exhaust probe f. full-power testing max. 750°C
VP 975479	Trolley for single or combi tester
VP 975667	Trolley for MET 6.x
VZ 911065	Software target data for AU I, AU II with OBD
VZ 911291	MAHA emission viewer software
VZ 990396	Cable 12/24 V for MET 6.x
VZ 994019	Mobility Kit MET 6.x MAHA
VZ 990454	Telescopic rod for MET
VZ 990463	Calibration filter 30% MET
VZ 990464	Calibration filter 50% MET
VZ 990465	Calibration filter 70% MET
VZ 990466	Calibration filter 30% (PTB)
VZ 990467	Calibration filter 50% (PTB)
VZ 990468	Calibration filter ca. 70% MET (PTB)

MET 6.3

EMISSION MEASUREMENT TECHNOLOGY



MET-SERIES

VP 135213

Emission Tester Combi Tester Petrol/Diesel

DESCRIPTION:

- ◆ Emission tester stands out due to limited weight and compact design
- ◆ Short warm-up time, quick measurement readiness
- ◆ One single probe sufficient for diesel and petrol
- ◆ Accurate analysis of gas components HC, CO, CO₂, O₂ with lambda value calculation
- ◆ Time-saving and easy testing/diagnosis of opacity/particle concentration using the partial flow method with free acceleration or engine under load
- ◆ Intuitive operation, clear structure in emissions testing process as set out in current guidelines 5 enable minimum cycle times
- ◆ The MAHA VCI makes EOBD analysis easy
- ◆ Innovative condensate separation thanks to active water separator
- ◆ Easy to maintain thanks to optimum accessibility
- ◆ Future-proof with the latest technology
- ◆ All measurement values HC, CO, CO₂, O₂, K-value, turbidity, particle concentration can be displayed simultaneously
- ◆ Option:
 - Expandable for NO_x analysis; (nitrogen monoxide (NO) and nitrogen dioxide (NO₂) are measured separately)
 - W-LAN interface

Petrol Tester Module Description:

- ◆ Partial flow emission tester with display unit (basic device) for analysis of gas components HC, CO, CO₂ and O₂ with lambda value calculation
- ◆ Emission testing of CNG, LPG and petrol engines possible

Diesel Tester Module Description: Official German PTB-approval 18.09

- ◆ Instantaneous or continuous measurement
- ◆ Options:
 - W-LAN interface

STANDARD DELIVERY:

- ◆ Basic units: gas analyser and opacimeter/particle measurement device in a high-quality synthetic casing with integrated display unit and keypad
- ◆ Steel mesh emission probe, 600 mm, 2000 mm probe tubing
- ◆ LAN interface with LAN cable (RJ 45)
- ◆ Power supply unit 110V - 230V, 50/60Hz
- ◆ Transparent drain hose for condensed water with collecting tank
- ◆ Main filter, zero filter and condensate filter
- ◆ Electrochemical O₂ sensor
- ◆ Trigger tongs for MET 6.3 for inductive RPM measurement at ignition cables
- ◆ 2 replacement filters, 2 replacement seals
- ◆ Measurement software for continuous measurement and control of MET without country-specific test procedure

TECHNICAL DATA:

MET 6.1:

Measurable gases	HC, CO, CO ₂ , O ₂
Measuring principle Infrared spectrometry	HC, CO, CO ₂
Measuring principle Electrochemical detection	O ₂
Flow	3,5 l/min
Accuracy class	O (OIML)
On-board voltage	10 V / 30 V
Power supply	1/N/PE 110 V/230 V 50 Hz/60 Hz
Ambient temperature	0 °C - 45 °C
Operating height	-100 m - 3000 m
Dimensions total (L x W x H)	406 mm x 225 mm x 160 mm
Weight	4,6 kg
CO - Measurement range / Measured value resolution (max.)	0 - 15 % Vol. / 0,01
CO ₂ - Measurement range / Measured value resolution (max.)	0 - 20 % Vol. / 0,01
HC - Measurement range / Measured value resolution (max.)	0 - 9999 ppm / 0,1
O ₂ - Measurement range / Measured value resolution (max.)	0 - 25 % Vol. / 0,01
Lambda (calculated)	0,5 - 9,99 / 0,01

MET 6.2:

Measurement principle	Extinktionsmessung
Warm-up time of the measurement chamber approx.	150 s
On-board voltage	10 V / 30 V
Power supply	1/N/PE 110 V/230 V 50 Hz/60 Hz
Dimensions total (L x W x H)	406 mm x 225 mm x 160 mm
Weight	4,6 kg
Measuring range particle concentration	1 - 1100 mg/m ³
Resolution of particle concentration	1 mg/m ³
Measurement range turbidity	0 - 100 %
Measuring range absorption coefficient	0 - 9,99 m ⁻¹
Resolution absorption coefficient	0,01 m ⁻¹

ACCESSORIES:

VZ 911355	PC/Test Lane Module for MET 6.3 for Germany
VZ 910176	Industrial PC All-in-One
VZ 910177	Industrial PC Compact
VZ 910052	PC-Keyboard and Mouse
VZ 910165	PC Flat Screen 22 inch (TFT Standard)
VZ 910091	DIN A4 Ink Jet Colour Printer
VZ 910186	USB-WLAN Adapter
VZ 910188	USB-Ethernet adapter
VZ 910189	W-LAN Router for PC Unit
VZ 990425	W-LAN Interface MET 6.x - PC
VZ 990446	MGT 300 EVO
VZ 990281	RPM extension cable (4 m) for magnetic sensor
VZ 990284	RPM extension cable (4 m) for battery
VZ 990282	RPM cable for Power Supply
VZ 990283	RPM-Power Supply
VZ 990439	AVL DITEST SPEED 2000
VZ 910138	RPM Power Supply for AVL DISPEED
VZ 990455	Y-Adapter for MET 6.x
VZ 911205	RPM extension cable (5 m) for combi sensor
VZ 911361	MAHA VCI (W-LAN) wireless OBD module
VZ 990395	Oil temperature sensor for cars
VZ 990447	IR Oil Temperature Gauge
VZ 980039	Exhaust probe f. full-power testing max. 750°C
VZ 980040	Exhaust probe f. cars/motorcycles
VP 975479	Trolley for single or combi tester
VP 975667	Trolley for MET 6.x
VZ 911065	Software target data for AU I, AU II with OBD
VZ 911291	MAHA emission viewer software
VZ 990461	NO/NO ₂ Sensors for MET 6.3
VZ 975232	Pressure controller with mini-can calibr. bottle
VZ 990396	Cable 12/24 V for MET 6.x
VZ 994019	Mobility Kit MET 6.x MAHA
VZ 975533	Connecting Kit of Motorcycles via MGT
VZ 975536	Connecting Kit for Exhaust Suction System
VZ 990454	Telescopic rod for MET
VZ 990463	Calibration filter 30% MET
VZ 990464	Calibration filter 50% MET
VZ 990465	Calibration filter 70% MET
VZ 990466	Calibration filter 30% (PTB)
VZ 990467	Calibration filter 50% (PTB)
VZ 990468	Calibration filter ca. 70% MET (PTB)

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