

AVL DITEST MDS 450 – MODULAR DIAGNOSTIC SYSTEM



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AVL DITEST GAS 1000



Miscellaneous	
Warm-up Time	Approx. 2 min
Operating Temperature	5 ... 40 °C
Storage Temperature	0 ... 50°C
Humidity	10 ... 90 % non condensing
Dimensions	344 x 252 x 85 (W x H x D)
Weight	2.2 kg
Interfaces	USB, Bluetooth Class 1, RS 232 (AK Protokoll)
Certification	2004/22/EC (MID); OIML R99 Class 0

Versorgung	
Voltage Supply	Via AVL DITEST CDS Basic Unit: 11..25 V DC
Power Consumption	Approx. 20 VA

Measurand	Measuring	Resolution	Accuracy
CO	0 ... 15% vol	0,01 % vol.	< 10.0 % vol.: ± 0,02% vol., ± 3% o.M. ≥ 10.0 % vol: ± 5 % o.M.
CO2	0 ... 20% vol.	0,01 % vol.	< 16.0 % vol.: ± 0,3 % vol., ± 3 % o.M. ≥ 16.0 % vol: ± 5 % o.M.
HC	0 ... 30.000 ppm vol.	≤ 2.000: 1 ppm vol.	< 2000 ppm vol.: ±4 ppm vol., ±3% o. M. ≥ 5000 ppm vol.: ±5% o. M. ≥10000 ppm vol.: ±10% o. M
O2	0 ... 25% vol.	0,01 % vol.	± 0,02 % vol. ± 1 % o. M.
NO (optional)	0 ... 5.000 ppm vol.	1 ppm vol.	± 5 ppm vol. ± 1 % o. M.
Lambda	0 ... 9.999	0,001	Calculated from CO, CO2, HC, O2

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AVL DISMOKE 480 BT



Technical Data	
Measuring Principle	Extinction Measurement
Operating Temperature	+5 ... +40 °C
Storage Temperature	-20 ... +60 °C
Humidity	max. < 90 %, non condensing
Nominal Voltage	230 VAC
Voltage Range	85 - 264 VAC
Frequency	47 ... 63 Hz
Power Consumption	approx. 78 VA (incl. heating)
Dimensions	395 x 285 x 136 (W x H x D)
Weight	3,5 kg
Interfaces	RS232; Bluetooth Class1

Opacity Chamber	
Chamber Heating	100 °C
Measurement Length	215 mm ± 2 mm
Max. Emission Temperature	200 °C
Opacity	- Messbereich: 0 ... 99,9% - Auflösung: 0,1 %
Absorption (k-Value)	- Messbereich: 0 ... 9,99% - Auflösung: 0,011/m

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AVL DITEST AUX 2000



Measurement Parameters (optional) RPM and oil temperature	Measuring Range
Engine	4-Stroke-Diesel- and Gasoline Engines
RPM Diesel Engines	400 ... 6.000 min-1
Drehzahl Gasoline Engines	400 ... 8.000 min-1
RPM Ranges	Idle Speed 400 ... 1.200 min-1 High RPM I 1.700 ... 6.000 min-1
Signal Input	AVL DITEST magnetic sensor
Oil Temperature	-10 ... 145 °C
Signal Input	AVL DITEST oil temperature Probe

Climatic conditions	
Operating Temperature	+4 ... +40 °C
Storage Temperature	-20 ... +50 °C
Humidity	10 ... 90% non condensing

Schnittstellen	
AVL DiSPEED 492 connector	- Connection for external DISPEED 490/492
AVL Dual sensor connector	- Connection for magnetic sensor (Art.Nr.:
Oil temperature probe	- Connection for oil temperature probe (Art.Nr.:)
connection	USB, Bluetooth Class 1

Dimension/Weight	
Dimensions	235 x 162 x 60 (W x H x D)
Storage Temperature	0,8 kg

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AVL DITEST VCI 1000 OR OBD 100



Power Supply	
Nominal Voltage	+12 V (DC)
Voltage Range	+6 ... +36 V (DC)/0,4 A

Power Supply	
Nominal Voltage	+12 V (DC)
Voltage Range	+8 ... +34 V (DC), max. 3W

Temperature	
Operation temperature	0°C ... +40°C
Transport temperature	-20°C ... +60°C
Humidity	10% ... 90% (not condensating)

Temperature	
Operation temperature	0°C ... +40°C
Transport temperature	-20°C ... +60°C
Humidity	10% ... 90% (not condensating)

Housing	
Weight	120g
Dimensions (T x B x H)	121,5 x 50 x 25mm

Housing	
Weight	95g
Dimensions (T x B x H)	118 x 48 x 25mm

Interfaces	
Personal Computer (PC):	Mini USB 2.0 Type B-Buchse (USB1.1)
Vehicle:	OBD-plug (16-pin)
supported vehicle-Protocols:	(AU)/(E)OBD/OBDII conform protocols All vehicle manufacturers specific protocols (e.g. K-line, CAN, PWM/VPW, SCP, GMLAN, UDS, KWP2000, TP2.0, ...)

Interfaces	
Personal Computer (PC):	Mini USB 2.0 Type B-plug (USB1.1)
Vehicle:	OBD-plug (16-pin)
supported vehicle-Protocols:	(AU)/(E)OBD/OBDII/WWH/OBD conform protocols