

# AVL DITEST CDS Basic module



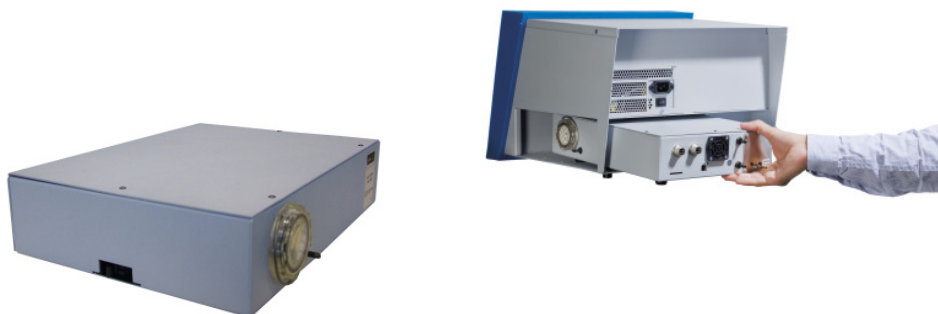
Technical Data	
Nominal Voltage	230 VAC
Voltage Range	95 ... 255 V
Frequency	47 ... 63 Hz
Consumption	Max. 125 W
Display	12,1" TFT-LCD module
Display resolution	XGA 1024x768
Weight	Appr. 16 kg

Measurement Parameters (optional)	Measuring Range
RPM and oil temperature	
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

Interfaces	
4 x USB 2.0 Ports	- Keyboard - Mouse - Printer - Spare USB Port
3 x RS232	- Spare Ports
AVL DiSPEED 492 connector	- Connection for external DISPEED 490/492
AVL Dual sensor connector	- Connection for magnetic sensor (Art.Nr.: BO2338)
Oil temperature probe	- Connection for oil temperature probe (Art.Nr.:)
Standard VGA connector	
Network connector	- Dual 10/100/1000 Mbps Ethernet port

# AVL DITEST GAS 1000



Measurand	Measuring Range	Resolution	Accuracy
<b>CO</b>	0 ... 15 % vol	0,01 % vol.	< 10.0 % vol.: $\pm 0,02$ % vol. $\pm 3$ % o.M. $\geq 10.0$ % vol.: $\pm 5$ % o.M.
<b>CO2</b>	0 ... 20 % vol.	0,1 % vol.	< 16.0 % vol.: $\pm 0,3$ % vol. $\pm 3$ % o.M. $\geq 16.0$ % vol.: $\pm 5$ % o.M.
<b>HC</b>	0 ... 30.000 ppm vol.	$\leq 2.000$ : 1 ppm vol. $> 2.000$ : 10 ppm vol.	< 2000 ppm vol.: $\pm 4$ ppm vol. $\pm 3$ % o.M. $\geq 5000$ ppm vol.: $\pm 5$ % o.M. $\geq 10000$ ppm vol.: $\pm 10$ % o.M.
<b>O2</b>	0 ... 25 % vol.	0,01 % vol.	$\pm 0,02$ % vol. $\pm 1$ % o.M.
<b>NO</b>	0 ... 5.000 ppm vol.	1 ppm vol.	$\pm 5$ ppm vol. $\pm 1$ % o.M.
<b>Lambda</b>	0 ... 9.999	0,001	Calculated from CO, CO2, HC, O2

<b>Power Supply</b>	
<b>Voltage Supply</b>	Via AVL DITEST CDS Basic Unit: 11..25 V DC
<b>Power Consumption</b>	Approx. 20 VA

<b>Miscellaneous</b>	
<b>Warm-up Time</b>	Approx. 2 min
<b>Operating Temperature</b>	5 ... 40 °C
<b>Storage Temperature</b>	0 ... 50 °C
<b>Humidity</b>	10 ... 90 % non condensing
<b>Weight</b>	2.5 kg
<b>Interfaces</b>	USB
<b>Certification</b>	2004/22/EC (MID); OIML R99 Class 0

# AVL DiSmoke 480 BT



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

Opacity Chamber	
<b>Chamber Heating</b>	100 °C
<b>Measurement Length</b>	215 mm ± 2 mm
<b>Max. Emission Temperature</b>	200 °C
<b>Opacity</b>	- Measurement Range: 0 ... 99,9 % - Resolution: 0,1 %
<b>Absorption (k-Value)</b>	- Measurement Range: 0 ... 99,99 % - Resolution: 0,01 l/m

# AVL DiOBD 880



<b>Power Supply</b>	
Nominal Voltage	12 V
Voltage Range	8 ... 34 V
Frequency	500 mA
<b>Climatic conditions</b>	
Nominal Operating Temperature	+20 °C
Operating Temperature	+5...+40 °C
Storage Temperature	-20...+60 °C
Humidity	10...90% non condensing
<b>Housing</b>	
Weight	450g
Depth	200mm
Width	128mm
Height	35mm
<b>Interfaces</b>	
AVL DiOBD 880 to computer	USB 1.1 Bluetooth Class 1
AVL DiOBD 880 to vehicle	25-pin Sub.-D with vehicle specific adapters (optional)
<b>Supported software protocols</b>	
(E)OBD compliant protocols	e.g. ISO 9141-2, KWP 2000, SAE J1850, CAN, K/L-Line, SAE J1850,
OEM specific protocols	