

AVL DiLINK 480



Current Supply via grid	
Nominal voltage	230 V
Voltage range	95 ... 255 V
Frequency	47 ... 63 Hz

Measurement Parameters	Measuring Range	Resolution
RPM	300 ... 10.000 min-1	10 min-1
Oil temperature	-10 ... 150 °C	1 °C
Ignition Ange (TDC-Sensor)	± 90 °KW	0,1 °KW
Ignition angle (Stroboscope)	0 ... 60 °KW	0,1 °KW
Dwell Angle	0 ... 100 %	0,1 %

Climatic conditions	
Operating temperature	+5 ... +40 °C
Storage temperature	-20 ...+60 °C
Humidity	10 ... 90 % non condensing

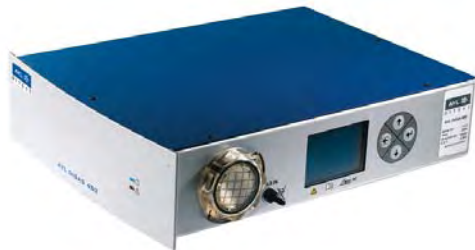
Interfaces	
Voltage supply for AVL module	24 V direct voltage
USB Type B	Connection of PC
USB Type A	Dongle
6 x USB Type A	- AVL DiGas 480 - USB-Devices
RS232	- AVL DiOBD 4000 - AVL DiSmoke 480

AVL DiSPeED 490 INTERNAL



Technical Data	
Engine	4-stroke-Diesel- and Gasoline engines
RPM Diesel engines	400 ... 6.000 min ⁻¹
RPM 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 combines sensor
Signal output	For structure and air-borne noise
Voltage supply	5 V via AVL DiLink
Operating temperatures	- Control unit: 0 ... +50 °C - Sensor cable: 0 ... +65 °C (magnetic stand: -20 ... +125 °C)
Storage temperature	-20 ... +60 °C
Humidity	< 90 %, non condensing

AVL DiGas 480



Measurand	Measuring Range	Resolution	Accuracy
CO	0 ... 10 % vol	0,01 % vol.	< 0,6 % vol.: ± 0,03 % vol. ≥ 0,6 % vol.: ± 5 % v. M
CO ₂	0 ... 20 % vol.	0,1 % vol.	≥ 10 % vol.: ± 5 % vol. ≥ 10 % vol.: ± 5 % v. M
HC	0 ... 20.000 ppm vol.	≤ 2.000: 1 ppm vol. > 2.000: 10 ppm vol.	< 200 ppm vol.: ± 10 ppm vol. ≥ 200 ppm vol.: ± 5 % v. M.
O ₂	0 ... 22 % vol.	0,01 % vol.	< 2 % vol.: ± 0,1 % vol. ≥ 2 % vol.: ± 5 % v. M.
NO	0 ... 5.000 ppm vol.	1 ppm vol.	< 500 ppm vol.: ± 50 ppm vol. ≥ 500 ppm vol.: ± 10 % v. M.
Lambda	0 ... 9.999	0,001	Calculated from CO, CO ₂ , HC, O ₂

Power Supply	
Voltage supply	via AVL DiLink 480, 11 ... 25 V DC
Power consumption	approx. 40 W

Miscellaneous	
Warm-up time	max. 7 min
Operating temperature	5 ... 45 °C
Storage temperature	0 ... 50 °C
Relative humidity	≤ 95 % non condensing
Response time	t ₉₅ ≤ 15s

AVL DiSMOKE 480



Technical Data	
Measuring Principle	Extinction measurement
Operating temperature	+5 ... +45 °C Subject to measuring accuracy +1 ... +50 °C Measurement ready
Storage temperature	-20 ... +60 °C
Humidity	max. 90 %, non condensing
Power supply	via AVL DiLink 480
Power input	approx. 55 W (with heating)
Dimensions	395 x 285 x 136 (W x H x D)
Weight	3,5 kg

Opacity Chamber	
Measuring Chamber heating	100 °C
Measurement length	0.215 m ± 0.002 m
Max. exhaust temperature	200 °C
Opacity	- measurement range: 0 ... 100 % - resolution: 0,1 %
Absorption (k-value)	- measurement range: 0 ... 9,99 1/m - resolution: 0,01 1/m

AVL DiSCOPE 802



Housing	
Weight	480g
Length	170 mm
Width	140 mm
Height	25 mm

Power Supply	
via USB connection	500mA
via power pack	6V, 1A
Length USB-connecting cable	1,8 m

Channels	
Number	2
Resolution per channel	12 Bit
Memory per channel	512 kByte; configurable to 1MByte at CH1 with full trigger functionality at CH2
Sampling Rate per channel	50 MHz
Bandwidth per channel	50 MHz

Input sensitivity per channel (per ADC)	
Voltage	200mV.....80V
Max. input voltage	±200V (DC + AC peak, <10kHz)
Impedance	1MΩ / 30 pF
Coupling	AC / DC
Accuracy	0,2% ± 1 LSB

Resistance measurement per channel (BNC)	Resolution
Measurement range 0-10 Ω	0.1 Ω
Measurement range 10-100 Ω	1 Ω
Measurement range 100-1000 Ω	10 Ω
Measurement range 1-10 kΩ	100 Ω
Measurement range 20-200 kΩ	1 kΩ

AVL DIOBD 880



Power Supply	
Nominal voltage	12 V
Voltage range	8 ... 34 V
Power consumption	500 mA

Temperature / Humidity	
Nominal value	+20 °C
Temperature range	+5...+40°C
Storage	-20...+60°C
Humidity	10...90% non condensing

Housing	
Weight	450g
Depth	200mm
Width	128mm
Height	35mm

Interfaces	
to the PC	RS232 9-pole Sub.-D RS232 15-pole Sub.-D USB 1.1
to the vehicle	25-pole Sub.-D with vehicle specified adapters

Supported Software Protocol	
(E)OBD compliant protocol	e.g. ISO 9141-2, KWP 2000, SAE J1850, CAN, K/L-
OEM specified protocol	Line, SAE J1850,