

# AVL DITEST MDS MOBILE – MODULAR DIAGNOSTIC SYSTEM

## TRANSPORTEINHEIT



| Miscellaneous |                             |
|---------------|-----------------------------|
| Dimensions    | 535 x 320 x 240 (W x H x D) |
| Weight        | Ca. 15 kg                   |

| Power Supply      |           |
|-------------------|-----------|
| Voltage Supply    | 230 VAC   |
| Power Consumption | Ca. 150 W |

# AVL DITEST MDS MOBILE – MODULAR DIAGNOSTIC SYSTEM

## AVL DITEST GAS 2301



| 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, wireless comm., RS 232 (AK Protokoll) |
| Certification         | 2014/32/EU (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.         | < 0,6 % vol:                    | ± 0.03 % vol |
|               |                       |                     | ≥ 0,6 % vol:                    | ± 5 % o. M.  |
| CO2           | 0 ... 20 % vol.       | 0,01 % vol.         | < 10 % vol:                     | ± 0.5 % vol  |
|               |                       |                     | ≥ 10 % vol:                     | ± 5 % o. M.  |
| HC            | 0 ... 30.000 ppm vol. | ≤ 2.000: 1 ppm vol. | < 200 ppm vol:                  | ± 10 ppm vol |
|               |                       |                     | ≥ 200 ppm vol:                  | ± 5 % o. M.  |
|               |                       |                     | ≥ 10000 ppm vol:                | ± 10 % o. M. |
| O2            | 0 ... 25 % vol.       | 0,01 % vol.         | < 2 % vol:                      | ± 0.1 % vol  |
|               |                       |                     | ≥ 2 % vol:                      | ± 5 % o. M.  |
| NO (optional) | 0 ... 5.000 ppm vol.  | 1 ppm vol.          | < 500 ppm vol:                  | ± 50 ppm vol |
|               |                       |                     | ≥ 500 ppm vol:                  | ± 10 % o. M. |
| Lambda        | 0 ... 9.999           | 0,001               | Calculated from CO, CO2, HC, O2 |              |

# AVL DITEST MDS MOBILE – MODULAR DIAGNOSTIC SYSTEM

## 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; wireless communication |

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

# AVL DITEST MDS MOBILE – MODULAR DIAGNOSTIC SYSTEM

## AVL DITEST AUX 2000



| Measurement Parameters (optional)<br>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<br>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, wireless communication                       |

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

# AVL DITEST MDS MOBILE – MODULAR DIAGNOSTIC SYSTEM

## AVL DITEST VCI 1000 ODER OBD 1000



| 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<br>All vehicle manufacturers specific protocols (e.g. K-line, CAN, PWM/VPW, SCP, GMLAN, UDS, KWP2000, TP2.0, ...) |

| Schnittstellen               |                                             |
|------------------------------|---------------------------------------------|
| 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 |