

# AVL DITEST

## EMISSION TEST FOR PETROL AND DIESEL ENGINES

### MEETING THE HIGHEST EXPECTATIONS REGARDING EMISSION TEST.

From motorbikes to trucks, all vehicles are covered. We meet our customers' requirements regarding emission test instrumentation to perfection:

Test centers worldwide, such as the French CENTRES CONTROLE TECHNIQUE, international DEKRA, Belgium GOCA, Spanish and Portuguese ITV, Austrian ÖAMTC and TÜV have been trusting emission test instrumentation from AVL DiTEST for several decades.



### TEST CENTERS

Test centers are the "factory" of vehicle emission test. Vehicles are tested at one-minute intervals. In many countries, more than 200 vehicles per day are not an exception but rather the rule. This requires highest availability and high efficiency of test systems.

### END-OF-THE-LINE-TEST

A renowned motorbike manufacturer, for example, performs end-of-the-line tests using AVL DiTEST emission test systems. About 12,000 motor cycles are tested on several lines per day.

### EXPERIENCE OF MANUFACTURERS

Automobile manufacturers, such as BMW, Daimler, PSA (Peugeot, Citroen), Renault, Iveco, MAN, Ferrari, Porsche, VW group, Skoda, Scania, etc. test exhaust gas systems according to strict internal guidelines. Our long-term cooperation with these companies proves the good experience of our customers.

# AVL DIX EMISSION TEST SYSTEMS

## EMISSION TEST FOR PETROL AND DIESEL ENGINES



## AVL DIX EMISSION TEST SYSTEMS



### A new chapter of exhaust emissions measurement for even more reliability.

Anyone who wants to be a leader in the field of emission testers needs perfect solutions. The device generation of AVL DiTEST knows no contradictions. What count are optimum performance and developments that exceed the requirements of today. Thanks to its consistent orientation on customer requirements AVL DiTEST was able to achieve a leading market position in the field of exhaust gas diagnostic systems.

### EMISSION TEST PETROL: AVL DIGAS 480



#### AVL DiGas 480

No-compromise diagnosis. We start where others leave off. Because we want to know exactly what's what. For you. Emission tests and engine tests are a matter of trust. Therefore, the AVL DiGas 480, a 4-gas and 5-gas module, is available for emission tests and engine diagnostics.

#### PRECISION IN DIAGNOSIS CAN BE TAKEN FOR GRANTED:

- IR measuring bench according to OIML R99 class 0
- Minimal maintenance required, calibration only once a year
- Emission test probe can be used in the case of extreme condensation
- Vertical or horizontal operation
- For mobile or stationary use
- Integrated display
- Optional NOX measurement

### EMISSION TEST DIESEL: AVL DISMOKE 480



#### AVL DiSmoke 480

The opacimeter module with diagnostic function for diesel engines. The AVL DiSmoke 480 is a fast and modern opacity measuring chamber.

#### PRODUCT BENEFITS:

- High accuracy
- Patented linearity test
- Compact, light-weight opacity measuring chamber requiring minimal maintenance
- For mobile or stationary use
- Short warm-up time
- Only one probe for all exhaust pipe diameters (passenger vehicles, trucks)
- Adapter for attachment to exhaust pipes above truck cabin
- Quick response times

## AVL DILINK 480

### Central linking and communication tool.

Wherever a trouble-free communication between hardware and software needs to be established, AVL DiLink 480 creates the connections between them. The central interface picks up external and internal sensor signals and performs a signal processing operation. The interface is professionally supported by probes and sensors for the pick-up of auxiliary variables that are relevant for emission testing.

#### AT THE FOREFRONT WITH PERFECT PERFORMANCE:

Every module is as universal as its components. You can choose from a great number of direct measuring devices that are supported by AVL DiLink 480:

- Crank position sensor
- Optical sensor
- AVL DiSpeed 492 (internal or external)
- Stroboscope
- Cable set of AVL DiTEST emission tester serie 4000
- Clamp-on transducer
- Trigger clamp
- Oil temperature probe and others



AVL DILINK 480

## AVL DIOBD 880

### Speed and oil temperature measurement via EOBD interface

Through simple connection to the EOBD interface the use of oil temperature probes and engine speed measurement devices is no longer necessary for emission test. The data from both auxiliary devices is read out directly via the EOBD interface of the vehicle.

#### BENEFITS:

- Easy handling
- High time saving
- Prepared for universal vehicle diagnostic



AVL DIOBD 880

## AVL DISPEED 492 internal

### AVL DiSpeed 492 - universal speed measurement device for passenger vehicles and trucks.

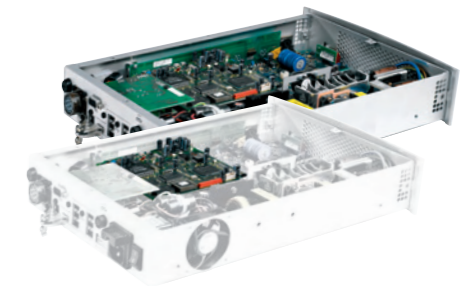
AVL DiSpeed is synonymous with universal engine speed measurement for petrol and diesel engines. We at AVL DiTEST have the following goal when it comes to speed measurement: "Our devices have to facilitate the tasks to be carried out in the workshops and in the test centres and meet the latest standards. Therefore, we keep on perfecting our technology until all requirements are met." Engine speed measurement with AVL DiSpeed 492 can be integrated in the AVL DiX as optional feature. This means that the AVL DiTEST combined sensor can be connected directly to the AVL DiLink.

#### FEATURES FOR YOUR TECHNICAL EDGE ON YOUR COMPETITORS:

- Engine speed measurement for stationary and dynamic speed measurement
- For petrol and diesel engines (best coverage)
- Setting of cylinder numbers not required
- Easy mounting thanks to integrated permanent magnets
- Automatic self-calibration and function monitoring
- Unique direct signal pick-up
- Future-proof as the device operates independently from any electric engine signals



AVL DITEST KOMBISENSOR



AVL DISPEED 492 intern



Technical Specifications and Datasheets available at: [www.avlditest.com](http://www.avlditest.com)