PASSION INNOVATES FUTURE

AVL DiTEST

Complete diagnosis – synchronizing OBD and measured values.

AVL DiTEST
MMB 1800
unique hydraulic and pneumatic diagnostic solution

AVLDiTEST.com

All in one picture – immediate root cause identification.

Vehicles and machinery have only limited sensor systems in their operation components. Hence the OBD system cannot recognize all errors and OBD diagnosis frequently identifies only follow up errors.

For many diagnostic cases it is crucial to have all information available, "really measured" – also by applied additional sensors – and OBD data. This capability saves tremendous time and money by achieving first time fix and fastest root cause detection. Finally, it leads to customer satisfaction.

MMB – Multi Measurement Box combines the measurement values and the OBD values fully integrated with an outstanding visualization. With this MMB 1800 solution, all information is available by full integration of On Board Diagnostics with really measured data.

OUTSTANDING CHANCE – IMPROVE SERVICE QUALITY AND ACHIEVE SAVINGS BY:

› Reduced troubleshooting time
› High First Time Fix Rate
› Fewer assemblies, dispatches and spares
› Cut warranty cost
› Increase machinery availability – make your customer happy

UNIQUE, POWERFUL SOLUTION – THE GAME CHANGER FOR YOUR SERVICE

CORRECT, QUICK AND DISTINCT

› Synchronization of OBD and measured values
› Reliable measurement and prove for warranty claim
› Simple handling
› Easy visualization and assessment
› Color-guided sensor recognition and safeguard-check
› „Bullet Proof"– neither vehicle nor instrument can be damaged
› Future proof: DoIP-capable for latest and future vehicle platforms
› Equipment pays off after a few events

STATE-OF-THE-ART HARDWARE

SIMPLE USE

› Automatic sensor recognition and actively supplied probes
› Easy-to-handle, light-weighted tool
› Absolutely rugged: tough and ultra-light with rubber protectors for all range of use from muddy field to tough workshop environment
› 8 individual measurement channels
› Additional voltage and current measurement available, e.g. for valve-check
› Compatible to flow meter and NVH sensor
› Optimized scope of supply with customizable sensor kit

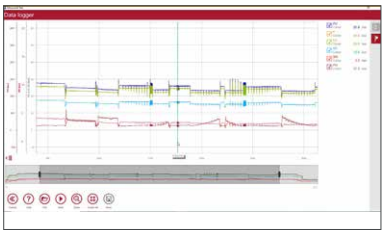
SOPHISTICATED SOFTWARE

INTUITIVE AND EASY

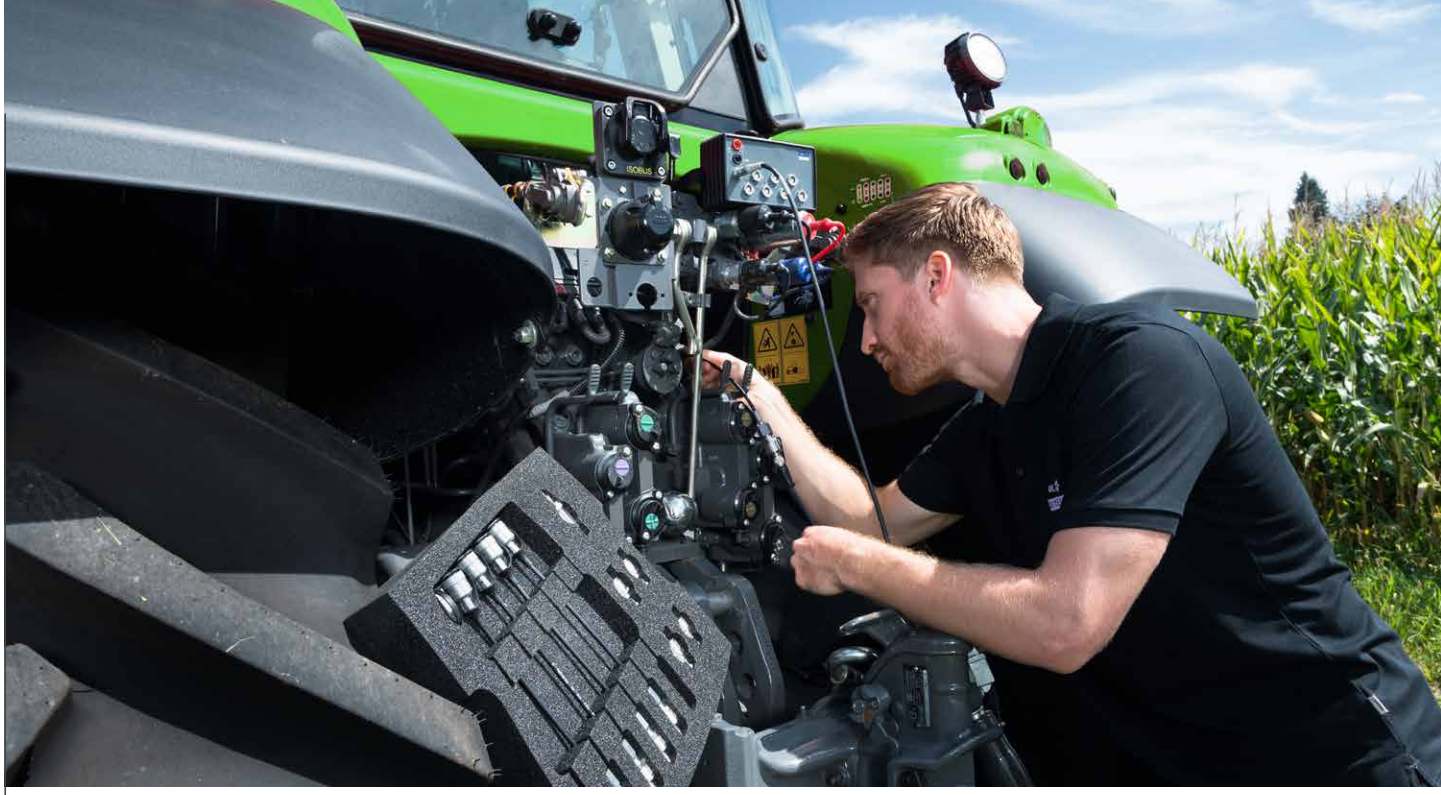
› Pre-configured measurement setup
› Data logging and visualization for up to 20 signals at one picture
› All in one picture synchronized: From two data sources (OBD and measured values)
› Flagging of noticeable events in the data log
› Individual configurations setup can be easily created by the user

As simple as that

Color guidance and automatic sensor recognition leads the user to the measurement setup in software and hardware



Data logging



PRACTICAL EXAMPLES: HOW IT SAVES TIME AND MONEY

Hydraulic systems are complex control systems and usually equipped with extensive valve blocks and other elements (vessels, sensors, hoses, etc.).

Hydraulic controls are used in working machinery, for example for hydraulic automatic transmissions (hydrostats) and for power steering in tractors, but also at the Hydraulic drive (output) for devices and working machines connected to the tractor (log splitters, baling presses, etc.).

For some of these complex systems either the OEM or the system-manufacturer provide test-cycles. With these defined workflows, it is possible to diagnose all functionalities and components. The MMB 1800 predefined measurement processes, in which OBD measurement data are recorded synchronously with the hydraulics and temperature measurement data, provide a perfect overview.

Thus the technician just has to start the procedure and follow the predefined measurement. The result is the data logging which easily spots the root cause problem in the system.

LOGGING FROM ON-BOARD AND/ OR MEASURED DATA

› Hydraulic pressures
› Flow rate
› Temperature
› Voltage
› Current
› NVH
› and many more

MMB 1800: AS VERSATILE AS NO MEASUREMENT TECHNOLOGY SO FAR

› Verify whether the hydraulic pump delivers enough pressure or volume
› Find out why the valve block is not working – due to defective valves or defective seals?
› Diagnose a problem on the transmission by performing a high-pressure measurement
› Measure hydraulic pressures of different valves simultaneously and verify if the holding pressure in a cylinder remains constant over time: faulty valve found (first time right)
› Test vehicle functions (like lifting heavy load) depending on the temperature
› Find out if there is a hydraulic fault in case that the hydraulic component does not move synchronously with the control unit movement
› and much more!

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