

The new standard for production and laboratory:

eddyvisor[®] DS / MS



Structure test with eddyvisor[®]:

Preventive Multi-Frequency Test with state-of-the-art μ P-technology

- Only OK parts required for calibration
- Proven Preventive Multi-Frequency Testing with 8 test frequencies at each test location
- 32 test locations (each with 8 tolerance fields) enable flexible adjustment
- Basic instrument includes 2 coil channels (up to 32 as an option)
- Maximum stability of results due to automatic calibration
- Highest test reliability due to PMFT and automatic calibration
- High-speed testing within milliseconds
- 15" touch screen for easy and clear operation, with a lot of graphic options
- USB 2.0- and Ethernet interfaces for easy data transfer to PC and printer and remote control, data storage to USB-stick
- Programmable access right for different responsibilities
- Desktop version (DS) and the new two-part switch panel version (MS)

The eddy current test instrument **eddyvisor[®]xS** is designed for testing material mix, heat treatment (hardness, case depth, temper, etc.), sinter density and structure differences.

The **eddyvisor[®]xS** is specifically designed for versatility in production lines or laboratory use and its principle of operation is based on ibg's Preventive Multi-Frequency Testing (PMFT). Thus it provides a far greater degree of reliability than single-frequency eddy current instruments.

The way from calibrating the **eddyvisor[®]xS** up to start testing is very short and simple. The instrument is operated via a bright 15" touch screen (also to be operated with gloves) with ergonomically-designed input format. Modern electronic enables extremely short calculation and load time.

The **eddyvisor[®]xS** is available in two different versions and the basic model includes two independent test channels. Up to 32 test locations may be stored. Models with up to 16 resp. 32 test channels are available.

The Preventive Multi-Frequency Method:

Only OK parts are required for calibrating the **eddyvisor[®]xS**. During calibration known reference parts are tested over a broad frequency band (1:1000 up to 1:3000) with up to 8 frequencies. Subsequently a typical material locus curve develops. Like a fingerprint it reflects the different characteristics of material like alloy, structure and scattering of the known OK parts.

Due to very easy operation the **eddyvisor[®]xS** can quickly be brought into test mode. Testing is also carried out with 8 frequencies. OK decisions are only reached if all and every criteria of the test part correspond to the known data. Thus unexpected deviations are recognised and sorted out. Test reliability is significantly higher compared with single-frequency testing.

After each test the measured values are statistically updated with numerical and percentage information. Furthermore the latest 300 test results are displayed as histogramme and up to 500 are stored.

Data security:

Up to 16 possible frequency band combinations may be selected for calibration purposes of the **eddyvisor[®]xS**. In addition, up to 100 test part types may be internally stored and quickly called by means of PLC signals. All internally stored data may be transferred to a PC or stored on an USB stick.

Documentation and data transfer:

For documentation and data transfer, the **eddyvisor[®]xS** is equipped with 3 USB 2.0 interfaces (2 of them on front side) as well as an Ethernet interface. An external printer may be connected (Centronics or USB) for hard copies of test results.

Opto-isolated interface:

An opto-isolated interface with each 64 (option max. 128) in- and outputs is available for connection of a PLC to control automatic systems.

Coils and probes:

Proven ibg standard and customised coils resp. probes are provided for all applications (refer to separate data sheet).

Case options:

The **eddyvisor[®]** is available as desktop version named **eddyvisor[®]DS** or as divided rack mount housing including the operating unit **eddyvisor[®]HMI** (Human Machine Interface) and the measuring unit **eddyvisor[®]MS**.

Technical data:

Test method: Preventive Multi-Frequency Testing with max. 8 test frequencies at up to 32 test locations
Coil channels: 2, option up to 32 channels
Test frequency range: 5 Hz - 300 kHz, adjustable for each test location
Test time: 8 ms/frequency (min.)
Micro processor: several high-performance processors for maximum test speed
Mains voltage: 90...264 V AC, 47...63 Hz
Power requirement: 120 VA
Dimensions: eddyvisor[®] DS w 410mm x h 308mm x d 271mm
eddyvisor[®] HMI w 410mm x h 308mm x d 96mm
eddyvisor[®] MS w 410mm x h 308mm x d 175mm
Weight: 13 kg

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(Subject to technical changes without prior notice)