Measuring Vibrations and Field Balancing
MinIbalancer MI 2100

Applications
- Field balancing
- Measuring vibrations on bearings and machine housings
- Measuring overall vibration
- Measuring unbalance vibrations
- Evaluating rolling bearing condition
- Measuring rotational speed
- Balancing in production and assembly under operational conditions

Description
Hofmann’s Minibalancer MI 2100 is a single- or dual-plane field balancing instrument. It features a very reliable and simple operating menu while creating optimum measuring and balancing results.

Advantages
- Field balancing and checking vibrations with one instrument
- Easy to understand and reliable user menu
- Portable and ready-to-operate
- Measuring and balancing protocol
- ICP sensor interface
- Excellent cost / performance ratio

Description
The handy MI 2100 calculates an unbalance correction for a polar mass balancing, for given rotor components or for the spread angle method.

For assessment of machine condition MI 2100 provides measuring of the vibration severity acc. to ISO 10816-3. For comparison and detection of unbalance also the synchronous (once-per-rev) vibrations can be measured.

With the functionality „Rolling bearing condition“ (option) available MI 2100 already can be used for condition monitoring of machines. The rolling bearing condition is being evaluated using the impact momentum method.

Using the serial interface the measurement values or a balancing protocol can be sent to a thermoprinter (option) or to a PC for production of customer-specific protocols (option).

All information without obligation, subject to change without notice!
MI 2100 in plastic transport case

Technical data

- Speed range balancing: 180 - 60,000 1/min
- Frequency range overall vibration: 10 - 1,000 Hz
- Frequency range rolling bearing condition: 5 - 50 kHz
- Display Range: 0 - 2,000 (mm/s)\textsubscript{RMS}, µm, (inch/s)\textsubscript{RMS}, mils, gSP
- Resolution: 0.01 (mm/sec.)\textsubscript{RMS} or µm, 0.001 (inch/sec.)\textsubscript{RMS} or mils, 0.01 gSP
- Vibration transducer: HMA 1140, 100 mV/g
- Speed sensor: A1SP30, Optical
- Connectors: 1 or 2 BNC measuring inputs, 1 Speed input, 1 Output, RS 232, 1 Power connection
- Display: LCD 60 mm x 32 mm, 128 x 64 Punkte
- Operation time of accumulators: 4 x NiCd, min. 4 hrs.
- Case: 100 mm x 205 mm x 35 mm, Protective rating IP54
- Weight: appr. 0.7 kg
- Transport case, standard: 440 mm x 380 mm x 105 mm

Options

- Balancing in two planes incl. second vibration sensor
- Measuring of rolling bearing condition
- Precision scale for up to 100 gr. and 1,000 gr.
- Graduated aluminium ring in several sizes
- Balancing putty
- V-Block retaining magnet for vibration sensor
- Thermo-printer DPU-414-30 B
- Thermo-paper roll MM112-402-n
- Aluminium transport case for MI 2100, accessories and thermo-printer with power supplies
- Extension cable for vibration sensor L = 5 m
- Extension cable for speed sensor L = 5 m
- Speed Sensor A1S37P- Laser
- Protocol software MI2PC

Scope of supply

- 1 Minibalancer MI 2100
- 1 Power supply / charging unit
- 1 Vibration transducer HMA 1140, cable length 1.5 m
- 1 Retaining magnet
- 1 Speed sensor A1S30P with magnetic base and connection cable 3 m
- 1 Reflective tape 0.5 m
- 1 Operation manual
- 1 Transport case

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