



**AQ STYL
SLOVAKIA**

DEVICE TO MEASURE AND ASSESS THE LEVEL OF ANTI-FRICTION
BEARINGS' VIBRATIONS
IL 100/2017



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DEVICE TO MEASURE AND ASSESS THE LEVEL OF ANTI-FRICTION BEARINGS' VIBRATIONS IL 100/2017

The device is designed for measuring and evaluating the level of anti-friction bearings' vibrations. It is suitable for production, workshop measuring centres and laboratories thanks to its versatility.

DEVICE DESCRIPTION:

IL100 / 2017 consists of a mechanical, electronic and sensor head.

The mechanical part comprises a motor drive, an exact self-lubricating spindle, enlarged oil reservoir, continuous spindle speed control with metage (800÷2800) rpm .. precise sensor holder. The mechanical part is designed so that the vibration level is less than 0.1 m/ s².

The electronic part of the device IL100 / 2017 consists of hardware and software equipment with touch screen and acceleration sensor.

DEVICE CHARACTERISTICS:

The device measures and evaluates speed or acceleration in accordance with norm DIN 5426-1 and ANSI / AFBMA Std.13 -1987 in 3 frequency bands:

- first band 50 - 300 Hz
- second band 300 - 1800 Hz
- third band 1800 - 10 000 Hz
- adjustable frequency bands - user can define frequency limits of a new band
- allows tracking of each frequency band on external output (oscilloscope, headphones, loudspeaker, analyser, etc.)
- division by bands

TECHNICAL PARAMETERS:

- signal from acceleration sensor (50 Hz ÷ 10 kHz)
- 24 V digital inputs / outputs
- analogue output: signalization to loudspeaker, motor speed control in a mechanical part
- control: coloured built-in touchscreen, Windows or Embedded Windows control also via connectable keyboard
- signal scanning in the field of time: adjustable time, adjustable measuring length
- evaluation: one-sided measurement, two-sided measurement (for double row bearings)
 - effective signal value
 - tip - tip
 - anderone (velocity only), VL (vibration level), %. dB
 - the results are displayed continuously REAL TIME during measurement
 - freeze after measurement - last test
- type-dimension setting + type-dimension database
- manual start (SW interface or electronical signal – e.g. foot lever)
- automatic start - stabilization and then automatic start once the bearing's insertion is detected
- Measurements with adjustable measurement time (e.g. 3, 5, 10 s)
- display: coloured touchscreen, graphical display of results, analogue indicators, oscilloscope, mode for visualization of vibration signals (time and frequency field)
- optional lubrication of the last measurement
- Data storage: automatic saving of measurement results, possibility of archiving and searching for measurements according to the selected filter, possibility of graphical display of archived measurements, display of results history
- export data using .csv format - Excel

