SKF Waviness Analyzer

Measuring electronics

MEC 7001 A

MEC 7001 A – front view

MEC 7001 A – back view

General description

SKF QT, as part of the worldwide SKF organisation, is in the fore-front of the continuous search for better methods of quality control.

The MEC 7001 A electronics represent one of the latest state-of-the-art technology for roundness and waviness evaluation. It consists of the CMME 7001 C electronics (the analyzing computer) with WinMWA software and the MWA measuring box, which picks up the measuring values.

Hardware

MEC 7001 A is an industrial PC connected to a measuring box via Ethernet. The measurement box records the measurement data and the evaluation PC calculates the evaluation results and displays them.

Various inductive measuring sensors can be used and the measuring signals are read with a high–precision data acquisition board.

Measuring

After the machine is properly set up and programmed, the routine measurements can be performed. Operators can carry out these routine measurements without any special knowledge about the MEC 7001 A/WinMWA options. The operator only needs to position a workpiece, adjust the sensor and start the pre–defined measuring routine for the specific part.

Technical specifications

MWA Measuring box

- Prozessor: ARM 9 32-Bit
- Memory: 64 MR SDRAM
- Operating sytem: Linux
- Measuring range: ± 100 µm, ± 500 µm
- Sensors: Various inductive mearuring sensors

CMME 7001 C – evaluation PC

- Prozessor: Intel Core i7-6700TE, Quad Core, 2,4 GHz, 8 MB cache (will be updated continuously)
- Memory: 16 MB DDR4 PC2400 (will be updated continously)
- Operating system: Microsoft Windows 10 IoT Enterprise 64-bit, English
- Solid State drive: 240 GB SSD SATA-6G *2,5 in* (will be updated continuously)
- Interface
  - **Front**
    - 1 x Display port
    - 1 x Line-out and 1x line-in
    - 2 x USB 3.0
  - **Back:**
    - 2 x DB9 for RS-232 COM port
    - 3 x Intel I210IT GbE LAN port
    - 4 x USB 3.0, 2 x USB 2.0
    - 1 x DVI-D port, 1 x HDMI port
- Housing: Aluminium housing without fan, EMC protection IP42
- Monitor: LCD monitor
- Keyboard: USB type, normal PC keyboard
- Measuring range: ± 100 µm, ± 500 µm
- Sensors: Various inductive measuring sensors

Dimensions and power requirements

- Dimensions (H × W × D): 4HE 177 x 430 x 445/505 mm (*6.97 x 16.93 x 17.52/19,88 in.*)
- Weight: Aprox. 13,5 kg (*29.76 lbs*)
- Power requirements: 115/230 V, 50/60 Hz, 150 W

Technical specifications subject to change without notice.
For more information on your specific application please contact:

www.skf.com/qt