

Analyzer Q20



Simultaneous measurement of the rate accuracy of 20 analogue quartz watches, resp. movements

The test system consists of a measuring unit AQ20 and a PC with associated software. For testing, watches without bracelet and movements can be loaded in standard pallets or boxes.

The positioning of the watches on the sensors plate becomes much easier.

Traceability of all test steps by movement identification and storage of the measurement results in a central data base. The test system can be networked at any time into a WiCoTrace group of instruments.

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Technical Data

Measurement possibilities

- Rate accuracy of quartz analogue watches (without bracelet) or movements.
- Measurement of watches with inhibition function or thermo-compensation.
- There can be several AQ20 connected to a PC, up to maximal 100 measuring channels.

Measurement capability

Measuring time: 2 s to 50 hours.
Measurement range: +/- 9.99 s/d, resolution 0.01 s/d.
Accuracy: +/- 0.01 s/d.

Caliber parameter

Period motor impulses: 1 to 60 s.
Inhibition time: max. 120 s.
Time thermo compensation: max. 16 minutes.

Signal gain

Selectable from 1 to 4.

Construction of the measuring unit

The base plate is supported by four massive pillars. The parts are made of anodized aluminium. The signal sensors are protected with a tinted glass plate. Numbering and marking sensors location are printed on the back of the glass. LEDs of the individual measuring channels for signal and error indication. Start/Stop button in the front right pillar. The built-in electronic unit contains 20 measuring channels.

Time base: Pre-aged and thermo-compensated high frequency quartz, OCXO.

Stability: + / - 0.004 s /d between 10° and 50° C.

USB interface for PC attachment.

Dimensions : 440x530x127 mm (w x d x h)

Weight : 18kg

Connection to the mains:

- 230V~ (210 à 250 V~) 50/60 Hz (45 à 65 Hz). Mains with 10 A safety switch and connection to the protective ground.
- 120 V~ version on demand.

Requirements of the PC

- Processor: min. P4, 2 GHz.
- RAM: min. 1 GB.
- Requested free space on hard disc: min. 40 GB.
- CD or DVD drive (for the database backup).
- USB- interfaces.
- Network interface is necessary for networking (WiCoTrace).
- Operating system: Windows 7, Windows 8 ou Windows 10.
- Monitor with 1280x1024 Pixel. We recommend a 19"LCD monitor.

Accessories

PC Dell with 19 " TFT monitor, keyboard, mouse and Windows.	64.1210
Printer HP LaserJet.	JB01-HP-LJET-ML
Label printer CT-S851 with USB interface.	JB01-CT-S851BK
Thermo paper for CT-S851	JB01-MM58-DPU20-N
Bare code reader Gryphon USB	JB01-901651082
Image System: 80GB hard disc USB 2.0 with Software Norton Ghost.	64PK1