

Proofmaster S



Professional equipment for Leak Tests

The Proofmaster S is specially suited for the repair service, for the specialized trade and for the examination of small series. Pre-defined universal programs, freely programmable test cycles and clear menu guidance guarantee simplest handling and a reliable examination for all watches.

The **new**, special **Leak Finder Program** opens a new dimension for the localisation of watch leakages in water. Watches with or without bracelet can be tested.

The instrument, equipped with a USB interface, can be networked by using the optional WiCoTrace software.

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Technical Data

Measuring principle

Analysis of the watch case deformation under pressure and/or vacuum.

Measurement programs

- **Pre-defined programs**
7 fix test programs, optimized for different watch types.
- **User specific programs**
10 test programs with free choice of the test parameters such as pressure, tolerances, test time and test sequences with 1 or 2 test pressure.
- **Leak Finder Program**
Special program for the localization of the watch leakage in the water.

Measurement cycle

Automatic test cycle with one or two pressures, respectively with vacuum and pressure. Automatic locking and release of the test chamber.

Vacuum and pressure range

Vacuum: selectable from -0.2 to -0.8 bar.

Pressure: selectable from 0.2 to 10 bar.

Test time

Automatic: determination on the basis of the programmed tolerance values and the watch characteristics.

Manual input: 15 to 600 s.

Stabilisation time

Automatic transition to the test, if the necessary stability is reached.

Manual input: 15 to 300 s.

Tolerances

Pre-defined test programs: automatic determination on the basis of the watch characteristics and the test pressure.

Measurement of the deformation

Measurement range: -300 bis +1200µm.

Resolution of the display: 0.01 µm.

Minimum deformation of the watch: depend on the watch type and the measuring parameters, typical 1.5 µm.

Limit of watch size

Diameter: 70 mm.

Thickness: 28 mm.

Width over the watch bracelet: 85 mm.

Distance soil watch-support: 75 mm.

Display of the results

Proportional reduction of the deformation related to one minute measuring time.

Range: 0 to 9.9% with a resolution of 0.1%.

Automatic evaluation: tight/leaky.

During the test continuous display of the deformation and the test pressure, status indication for the measurement and count down of the remaining measuring time.

Date and time display.

Language choice

Messages and instructions in a choice of 9 languages.

Compressed air connection

Pressure at least 1 bar higher than the required test pressure, 5 bar min. Built-in vacuum generator.

Interfaces

USB: for connecting a PC.

RS232: for connection the Witschi thermo printer.

Details

Alphanumeric LCD display with 4 x 20 characters, rear-lit.

Plastic housing, anthracite coloured.

Front panel: aluminium, colourless anodised.

Test chamber unit: aluminium casting, grey.

Dimensions: 245 x 240 x 240 mm (w x h x d).

Weight: 6.1 kg.

Mains connection: mains adapter for 230 V~ or 120 V~, 1.2 A

Accessories

Compressor JunAir 6-10, 11 bar with safety outlet, water separator and rustproof reservoir 10 l. Item 97.91.101

Witschi Thermo printer with graphic mode, universal mains adapter 90 V~ - 260 V~, cable and 1 paper roll. Item JB01-MCP7810

Thermo paper, roll. Item JB01-MM58-DPU20-N

Autoprint: PC software to capture and print out the measuring results. Item 64.55.901PK1

WicoTrace: PC software for parameter editing and storage of the measuring results in the Witschi data base (in preparation).

