

Proofmaster S

New



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 user specific programs with free programmable test parameter such as pressure, tolerances, measurement 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.

Measurement time

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

Manual input: 10 to 600 s.

Stabilisation time

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

Manual input: 10 to 300 s.

Tolerances

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

User specific programs: input of the tolerance in %/min.

Measurement of the deformation

Measurement range: -300 bis +1200µm.

Resolution of the display: 0.1 µm.

Resolution of the sensor: 0.02 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.

Compressed air connection

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

Interfaces

USB: for PC.

RS232: for Witschi printer.

Details

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

Plastic housing, anthracite colored.

Front panel: aluminum, colorless anodised.

Test chamber unit: aluminum casting, grey.

Dimensions: 245x240x240 mm (w x h x d).

Weight: 6.1 kg.

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

Accessories

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

For 230 V~ Item 97.91.101

For 120 V~ Item 97.91.102

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

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

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

