

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.

Watches with or without bracelet can be tested.

Localisation of watch leakages in water with the special **Leak Finder Program**.

3 **Altimeter** programs with gentle pressure increase for watches with integrated altimeter and pressure sensors.

Equipped with a USB interface, the device can be networked by using the optional Proofmaster M/S software.

Witschi Electronic Ltd

Bahnhofstrasse 26 – CH-3294 Büren a.A. – Tel. +41 (0)32 352 05 00
 Fax +41 (0)32 351 32 92 – welcome@witschi.com – www.witschi.com



Technical Data

Measuring principle

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

Measurement programs

— Pre-defined programs

10 fix test programs, optimized for different watch types.

— User specific programs

11 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 600 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 0.5 µm.

Limit of watch size

Diameter: 70 mm.

Thickness: 28 mm.

Width over the watch bracelet: 85 mm.

Distance soil watch-support: 75 mm.

Language choice

Messages and instructions in a choice of 9 languages.

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 connecting a PC.

RS232: for connection the Thermo printers.

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.	97.91.103
Thermo printer Bluetooth	JB01-SLK-TE25-S
Autoprint: PC software to capture and print out the measuring results.	64.55.901PK1
Proofmaster M/S: PC software for parameter editing and storage of the measuring results in the Witschi data base.	64.50.762PK1