

# 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

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## 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