

# ProofMaster®



## The new generation ProofMaster – more compact, faster, more accurate

The latest technology and smart algorithms are part of its DNA. Based on many years of experience, a device has been designed that is characterised by the easiest possible operation and parameterisation. It impresses with rapid and reliable tightness testing, small space requirements, optimal protection of watches against scratching and its ergonomic design.

## The new ProofMaster is adaptable

With modular option packages and accessories, the individual requirements of watchmakers, service centres, production facilities and laboratories are covered perfectly.

## WiCoTRACE software

The ProofMaster can be used as a stand-alone device or in conjunction with the PC software WiCoTRACE 3. This provides additional possibilities for the measurement analysis and the professional administration of parameters and results, either locally or centrally.

# ProofMaster®

## ProofMaster

- Testing can be carried out with up to three test pressures ranging from –0.8 to 10 bar
- Intuitive operation via the 5 inch touchscreen
- Considerable productivity increase thanks to the new, fast evaluation algorithm
- ScratchProtect – lowerable watch support offers efficient protection against unwanted scratches
- Improved measurement accuracy due to increased resolution and stability of deformation measurement
- Fully automatic sensor actuation, as well as closure and locking of the test chamber
- LeakFinder – new function for reliable and fast location of leaks
- Improved protection against mechanical faults with shock and vibration detection
- Results of last 100 measurements saved (ring memory)
- Program memory for 50 measurement programs

## Measuring principle

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

## Deformation measurement

Measuring range: –500 to +1'200 µm, Resolution: 0.01 µm

## Test pressures

Testing with up to 3 test pressures

Vacuum –0.1 to –0.8 bar in steps of 0.1 bar

Pressure 0.1 to 10 bar in steps of 0.1 bar

## Programs

Quick selection, favourites list, 5 fixed and 50 parametrisable programs, LeakFinder program, program for device check (reference leak)

## Parameter inputs

Up to 3 different test pressures, input of the watch case diameter to specify the volume or the known internal volume of the watch, measurement time 20 to 600 s or automatic, limit values per test pressure for the leakage rate, min./max. deformation limits for additional test safety, leakage rate units µg/min, µl/min and mm<sup>3</sup>/min

## Display/input

5 inch colour screen with a resolution of 800 x 480 pixels, capacitive touch function, user interface languages: E/F/D/I/SP

## Display of results

No leak/leaking, numerical values for max. deformation, leakage rate and result per test pressure, measurement times and overall result

## Results memory

Ring memory for 100 measurement results

## Interfaces

2x USB Type A ports, 1x USB Type B port, 1x RJ45 Ethernet, Bluetooth (with optional dongle)

## Print-out using tape printer

Print-out of test parameters and results, input for customer-specific logo and text

## Max. dimensions of watches (test samples)

Diameter: 65mm, height: 30mm

Width across watch strap: 85 mm

## Device specifications

Dimensions: 149 x 243 x 305 mm (L x H x D)

Weight: 5.8 kg

## Software

Software package ProofMaster PRO