

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 thanks to rapid, reliable seal 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 in combination with a PC and WiCoTRACE software. This results in additional capabilities and the professional administration of parameters and results, either locally or centrally.

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- Testing can be carried out with up to three test pressures ranging from –0.8 to 10 bar
- Intuitive operation thanks to 5 inch touchscreen
- Considerable productivity increase thanks to new, fast evaluation algorithm
- Scratch-Protect – lowerable watch support offering efficient protection against unwanted scratches
- Improved measurement accuracy thanks to increased resolution and stability of deformation measurement
- Fully automatic sensor actuation, as well as closure and locking of the test chamber
- Leak-Finder – new function for reliable, fast location of leaks
- Improved protection against mechanical faults due to 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

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 (depending on version)

Quick selection, fixed programs, 50 parameterisable programs, leak-finder program, program for checking device (reference leak)

Parameter inputs (depending on version)

Up to 3 different test pressures, input for Ø of the watch case to specify the volume or known internal volume of the watch, measurement time 10 to 600 s or automatic limit values for leakage rates per test pressure, min./max. deformation limit values for additional test reliability, leakage rate units of measurement µg/min, µl/min and mm³/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 (depending on version)

No leaks/leaking, numerical values, graph 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

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: 65 mm, height: 30 mm

Diameter of fastened watch strap: 85 mm

Height of watch support: 80 mm

Device specifications

Dimensions: 150 x 245 x 306 mm (L x H x D)

Weight: 6.3 kg