

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, we present a device 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 ProofMaster is adaptable

With two different option packages, the individual requirements of watchmakers, service centres, production facilities and laboratories are covered perfectly. A later upgrade to the PRO version is possible at any time.

WiCoTRACE

The ProofMaster can be used as a stand-alone device or in conjunction with the PC software WiCoTRACE. This provides additional possibilities for the measurement analysis 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 –0.7 to 10 bar
- Intuitive operation via the 5 inch touchscreen
- Considerable productivity increase thanks to the new, fast evaluation algorithm
- Fully automatic sensor actuation, as well as closure and locking of the test chamber
- ScratchProtect – lowerable watch support offers efficient protection against unwanted scratches
- LeakFinder – reliable and fast location of leaks
- Shock and vibration detection for increased robustness of the measurement
- Display of rate, beat error and amplitude when a ChronoMaster is connected
- Connection of a code reader for the identification of the watch or selection of a WiCoTRACE test program

	ProofMaster	ProofMaster PRO
Automatic sensor actuation and chamber closure, ScratchProtect and TouchClose	•	•
Quick select – simple and fast parameterisation	•	•
Fixed test programs	10	10
Parametrisable test programs with display of the leakage rate, adjustable limit and measurement time		50
Results memory		100
LeakFinder		•
WiCoTRACE	• ¹	•

¹ Only fixed test programs.

General

Operation/Display	5 inch colour screen with 800 x 480 pixel resolution and capacitive touch function
Languages	German, French, English, Spanish, Italian
Interfaces	2x USB type A 1x USB type B 1x RJ45 Ethernet Bluetooth and Wi-Fi (with optional dongle)
Dimensions	149 x 243 x 305 mm (W x H x D)
Weight	5.8 kg
Peripherals (optional)	Thermal printer Barcode reader ChronoMaster
Shock detection	yes
Limit of watch size	Diameter: 70 mm Thickness: 30 mm Width: 85 mm

Measurement

Measurement principle	Analysis of watch case deformation under vacuum and/or pressure and with consideration of the deformation behaviour.
Deformation	Measuring range: -500 ... 1'200 µm Resolution: 0.01 µm

Measuring conditions

Measurement time	Automatic or manual ^{PRO} (20 ... 600s)
Pressure stages	up to 3 per test ^{PRO}
Vacuum	-0.1 ... -0.8 bar ²
Pressure	0.1 ... 10 bar
Units	µg/min, µl/min or mm ³ /min
Operating conditions	Temperature: 15 - 35 °C Relative humidity: max. 80 %

² The maximum vacuum that can be generated depends on the atmospheric pressure.