

waio



WAIO, the comprehensive watch check for your salesroom

Enhance the customer experience at the point of sale with the WAIO. The sophisticated device offers comprehensive, automatic measurement of mechanical and quartz watches. The sales staff check the tightness and chronometry directly on the sales floor and carry out demagnetisation. By analysing the WAIO, you can reassure your customers that their watches are in perfect working order, or you can provide them with well-founded arguments for servicing thanks to the results displayed.

Fully automatic measurement at the touch of a button

The WAIO is ready for immediate use and requires minimal operator training thanks to its user-friendly software. The large display guides you step by step through the measurement process. The measurement results are easy to understand, especially for people without specialised technical knowledge. Thanks to the extended display of the results, the exact and detailed results are of course also visible.

Witschi Data Management

Thanks to the connection to WiCoTRACE 4, all measurement results are automatically saved and can be further processed and/or shared from there.

WAIO

- Fully automatic measurement of mechanical and quartz watches with and without bracelet
- High-resolution 7" display with touch function
- User-friendly operation and easy-to-understand results display
- Precise measurement thanks to the latest measurement technology and algorithms
- Leak tests up to 5 bar with the built-in air compressor
- Measurement of the rate accuracy of mechanical watches in four test positions
- Measurement of the rate accuracy and motor pulses of quartz watches
- Effective demagnetisation of the watch with determination of the rate difference
- ScratchProtect prevents scratches on the watch
- Regular updates and functional enhancements over the air (internet connection required)
- Connection to WiCoTRACE 4

Device specifications

Operation	Capacitive touchscreen with multi-touch
Display	7" display, resolution 1280 x 800 px
Languages	German, French, English, Italian, Spanish, Japanese, Chinese (traditional)
Interfaces	2x USB type A 1x USB type C 1x Ethernet, RJ45 1x power supply WLAN (integrated)
Dimensions	218 x 297 x 377 mm (W x H x D)
Weight	14.5 kg
Shock detection	yes
Maximal watch dimensions	Diameter 12...60 mm (without crown) Height 4 ... 21 mm Bracelet width < 32 mm Weight < 260 g
Operating conditions	15 ... 35 °C, Relative humidity max. 60%

Measurement mechanical watches

Measuring principle	Acoustic measurement of beat noises
Rate	-999 ... +999 ± 0.1 s/d
Amplitude	70 ... 360° ± 1.0°
Beat error	0 ... 9.9 ms ± 0.1 ms
Test positions	CH, CB, 6H, 12H
Measuring time	max. 60 min per test position
Beat rate	Automatic, 3'600 ... 72'000 A/h
Lift angle	Manual, 10 ... 90°
Reference time	OCXO (± 0.01 s/d)

Measurement quartz watches

Measuring principle	Inductive sensor for measuring the motor coil pulses
Rate	-30 ... +30 s/d, resolution 0.01 s/d
Pulse duration	3.9 ... 20 ms ± 0.1 ms
Power level	0 ... 100% ± 5%
Motor period	1 ... 60 s
Inhibition time	0 ... 2 min
Measuring time	max. 16 min, automatic max. 2 min
Reference time	OCXO (± 0.01 s/d)

Tightness test

Measuring principle	Analysis of the deformation of the watch case under vacuum and/or air pressure with consideration of the deformation behaviour
Deformation	-500 ... 1'200 µm, resolution 0.01 µm
Measuring time	Automatic
Pressure stages	up to 3 per test
Air compressor	Integrated, -0.5 bar (vakuum) to 5 bar
Filling time	0 to -0.5 bar: < 20 s 0 to 1 bar: < 45 s 0 to 3 bar: < 120 s 0 to 5 bar: < 300 s
Tolerance limit	10 ... 999 µg/min

Demagnetisation

Principle	Decaying magnetic field
Positions	CH, -45° and +45°
Residual magnetism	<40 µT (typical)