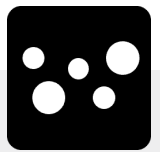


# waio



## **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
- Individualised programme creation and loading of specific measurement programmes per watch (only possible with WiCoTRACE 4)

### Device specifications

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

### Measurement mechanical watches

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

### Measurement quartz watches

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

### Tightness test

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

### Demagnetisation

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