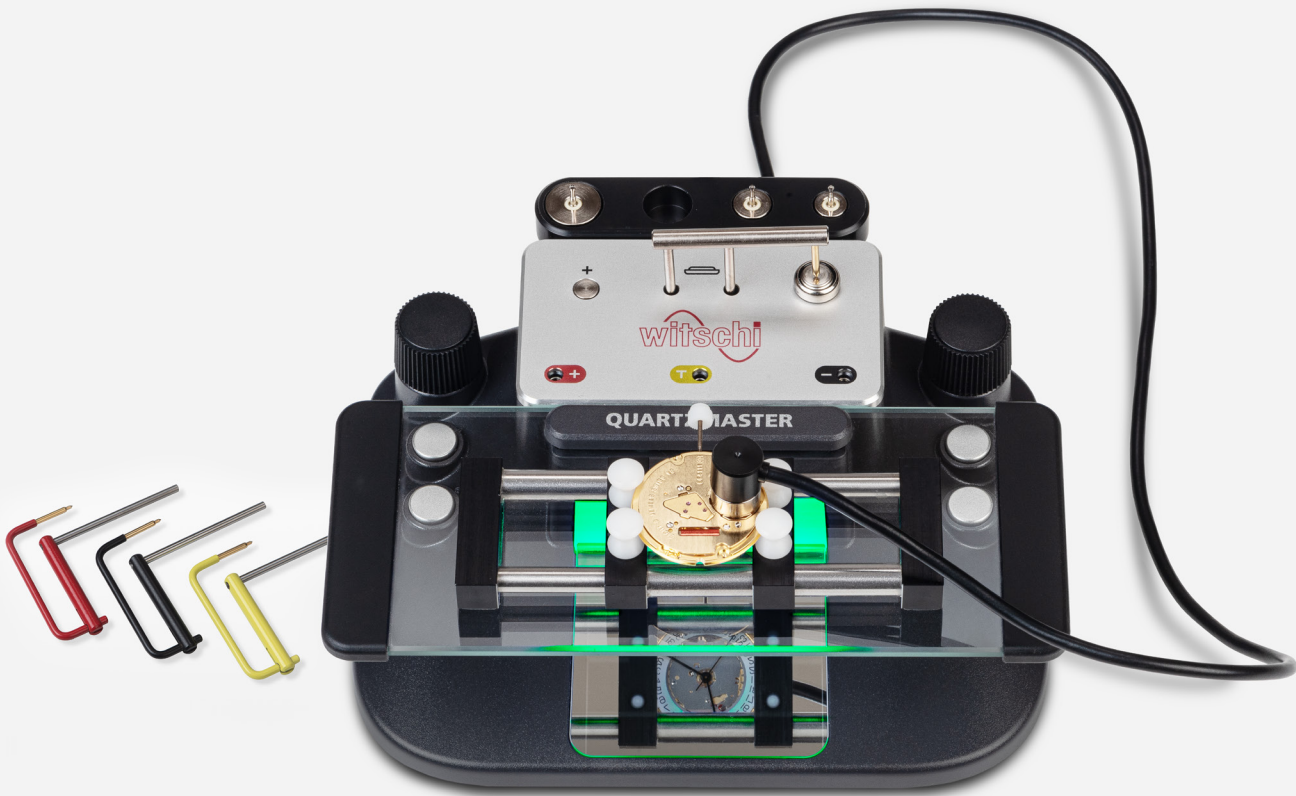
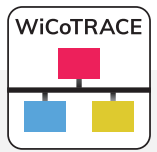


# QuartzMaster®



## QuartzMaster, the expert in the measurement of open quartz watches!

QuartzMaster offers an extensive range of measurement and testing options for the analysis of open quartz watches and the battery. Thanks to its quick, accurate measurement procedures, not only is it indispensable for service and production, but also an important measuring instrument in the watch laboratory.

## User-friendly and compact

This compact measuring device is connected to the display unit via a USB interface. With its freely configurable keys and rotary knobs, three practical contact brackets and the ingenious watch movement holder, testing is trouble-free. And thanks to the optional dummy battery, the watch is quick and easy to connect to the measuring device.

## Automated measurement programs with WiCoTRACE

With WiCoTRACE test parameter and measurement results management, automated measurement programs can easily be created and managed centrally. The clearly laid-out application in WiCoTRACE supports an efficient test procedure.

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## QuartzMaster

- Compact and ergonomic measuring device for open quartz watches
- Plug & Play thanks to USB interface
- Battery tester with load resistances of 100  $\Omega$ , 2 k $\Omega$  and 2 M $\Omega$
- Easy to operate thanks to configurable rotary knobs and keys on the device
- Suitable for both left- and right-handed users
- Dedicated, yellow bracket for the accelerated measurement
- Dummy battery for rapid connection of the watch to the measuring device (optional)
- The lighting for improved readability of the watch hands changes colour depending on the result and device status
- A mirror enables the user to see the hands from the working position
- Automated measurement programs with WiCoTRACE

	QuartzMaster
Battery measurement	•
Testing in accelerated mode	•
Current measurement	•
Rate deviation with and without inhibition	•
Testing minimal operating voltage and end of life (EOL) voltage	•
Automatic determination of EOL voltage	•
Motor pulse analysis (pulse duration and chop ratio)	•
WiCoTRACE	•

## General

Operation	Push rotary knobs, keys
Compatible display units	Windows PC Windows tablet
Interfaces	1x USB Type A (Type C device ) 1x dummy battery compartment
Dimensions	142 x 53 x 104 mm (W x H x D) without contact bracket
Weight	430 g

## Measurement

Measurement principle	Current measurement with variable supply voltage, as well as battery measurement
Speed	-300 to +300 s/d (0.1% $\pm$ 0.03 s/d)
Voltage	0 to 3.5 V (0.5% $\pm$ 10 mV)
Current	0 to 20 mA (2% $\pm$ 2 nA)
Motor pulse	0 to 100% ( $\pm$ 10%)
Pulse duration	0 to 20 ms

## Measuring conditions

Measurement time	2 s to 16 min
Power supply	0 to 3.5 V
Time base	OCXO ( $\pm$ 0.004 s/d)