

QuartzSensor



QuartzSensor, efficient measurement of quartz watches and movements

The QuartzSensor is a compact measuring device for the measurement of analogue and LCD watches or movements, as well as tuning fork watches. The capacitive and inductive sensors measure the rate deviation and analyse the motor pulses. Sophisticated shielding of the sensors minimises unwanted interference.

User-friendly and compact

The device is connected to a Windows PC or the Terminal via the USB interface. The stable stand enables comfortable work with movements and watches with or without wristband and is cushioned to prevent scratches.

Automated measurement sequences with WiCoTRACE

In the parameter and measurement result management software WiCoTRACE, automated measurement sequences can be easily created and centrally managed. The user-friendly application in WiCoTRACE supports an efficient test process.

QuartzSensor

QuartzSensor

- Compact and ergonomic measuring device for quartz watches or movements with inserted battery
- For analogue, LCD and tuning fork watches
- Capacitive and inductive sensors
- Sophisticated shielding minimises undesired interferences
- Measurement of rate deviation with and without inhibition
- USB interface for connection to a Windows PC, Windows tablet or the Terminal
- LED to indicates correct signal reception
- WiCoTRACE software with automated measurement sequences and a direct measurement mode

	QuartzSensor	QuartzSensor PRO
Rate measurement of analogue, digital and tuning fork watches	•	•
Motor pulses (pulse duration and chopping ratio)	•	•
Automated measurement sequences with WiCoTRACE	•	•
Direct measurement mode with numerical display	•	•
Direct measurement mode with graphical display		•
Detailed graphic display of the measurement signal		•
Rate deviation via quartz frequency (32 kHz)		•

General

Display	LED
Compatible display units	Windows PC and tablet Witschi Terminal
Interfaces	1x USB type A (Type C device)
Dimensions	50 x 56 x 102 mm (W x H x D)
Weight	83 g

Measurement

Measurement principle	Capacitive and inductive measurement of the rate and motor pulses
Rate	-300 to +300 s/d (± 0.03 s/d)*
Motor pulse	0 to 100% ($\pm 10\%$)
Pulse duration	0 to 20 ms

Measuring conditions

Measurement time**	2 s ... 50 h
Time base	TCXO (± 0.026 s/d)
Operating conditions	Temperature 10 to 40 °C Relative humidity max. 80 %

* if calibrated annually

** depending on the used software or display device