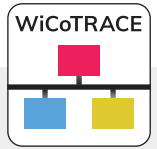


# QuartzSensor®



## **QuartzSensor, the efficient measurement of closed quartz watches**

The QuartzSensor is a compact measuring device for the measurement of analogue and digital quartz watches, as well as tuning fork watches in closed condition and with inserted battery. The sensitive 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 closed quartz watches with inserted battery
- For analogue, digital and tuning fork watches
- Sensitive 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 visualise the captured signal
- 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)                  |              | •                |

Available from Q4/2023

## General

|                          |  |
|--------------------------|--|
| Display                  | LED                                      |
| Compatible display units | Windows PC<br>Windows tablet<br>Terminal |
| Interfaces               | 1x USB type A (Type C device)            |
| Dimensions               | 50 x 54 x 102 mm (W x H x D)             |
| Weight                   | 430 g                                    |

## Measurement

|                       |   |
|-----------------------|---|
| Measurement principle | Capacitive and inductive measurement of the rate and motor pulses |
| Rate                  | -300 to +300 s/d (0.1% ± 0.03 s/d)                                |
| Motor pulse           | 0 to 100% (± 10%)   |
| Pulse duration        | 0 to 20 ms  |

## Measuring conditions

|                      |  |
|----------------------|--|
| Measurement time     | 2 s to 16 min (50h)                                    |
| Time base            | TCXO (± 0.026 s/d)                                     |
| Operating conditions | Temperature 10 to 40 °C<br>Relative humidity max. 80 % |