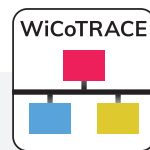


# Chronoscope M10



## **Chronoscope M10, efficiency in watch production!**

The Chronoscope M10 is the versatile measuring system for checking large quantities of mechanical watches in the production process. It can acoustically measure the beat noises of up to 10 watches in 6 automatically controlled test positions. The precise measurement provides results on rate variation, beat error and amplitude.

## **Measurement on movements and watches**

The highly sensitive recording of the impact noise at the crown is suitable for movements in calottes and complete watches with or without bracelet.

## **More productive thanks to WiCoTRACE**

The Chronoscope M10 is connected to the PC via a USB interface. Thus, the M10 is fully integrated into the central test parameter and results management WiCoTRACE and benefits from a traceable, productive and efficient measurement process.

# Chronoscope<sup>®</sup> M10

## Chronoscope M10

- Simultaneous acoustic measurement of the beat noises of 10 mechanical watches
- Suitable for movements in calottes or watches with or without bracelet
- Automatic measurement in 6 test positions
- Long-term measurement up to 300h
- Proven and robust mechanics for use and the toughest operating conditions
- Powerful test parameter and result management with WiCoTRACE

## General

Operation	Parameterisation and display via PC software WiCoTRACE
Display	Windows PC (optional)
Languages	German, French, English, Spanish, Italian
Interfaces	1x USB Type B
Dimensions	560 x 400 x 460 mm (W x H x D)
Weight	60 kg
WiCoTRACE	yes (WiCoTRACE 3 Lite included in the delivery)

## Result management

Print-out	PC printer
Results memory	Yes
Export	Excel, PDF

## Measurement

Measurement principle	Acoustic measurement of beat noises
Measurement channels	10
Rate	-999 ... +999 s/d $\pm$ 0.1 s/d High resolution: -99.99 ... +99.99 s/d $\pm$ 0.01 s/d
Amplitude	80 ... 360° $\pm$ 1.0° High resolution: 80 ... 360° $\pm$ 0.1°
Beat error	0 ... 9.9 ms $\pm$ 0.1 ms

## Measuring conditions

Stabilisation time	Manual, 0 ... 60 Minutes
Amplification control	Adjustable, 1 ... 4
Measurement time	2 s ... 300 h
Test positions	6
Beat rate	Manual, 18'000 ... 43'200 A/h (6 Hz)
Lift angle	Adjustable 10 ... 90°
Time base	OCXO ( $\pm$ 0.004 s/d)