

ChronoMaster

plug-in!

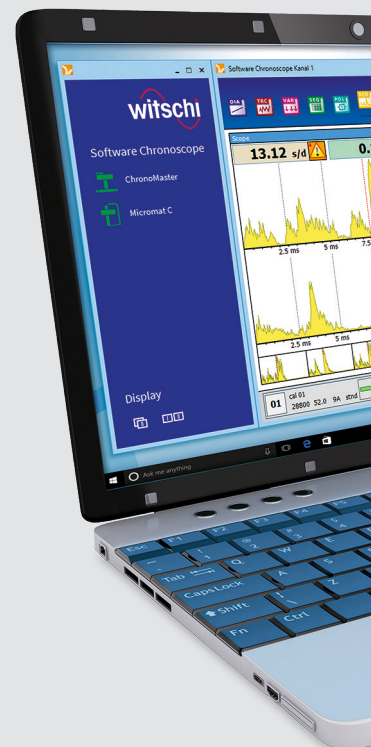
ChronoMaster



modular ■
convenient ■
functional ■



■ efficient
■ ergonomic
■ user-oriented



Plug-in! Connect the smart ChronoMaster easily with your PC or tablet. Your measurement results are displayed on the screen. The ChronoMaster offers you user-specific, individual functionalities:

- Modular software in two versions
- Simultaneous testing in combination with the Micromat C automatic microphone
- Convenient operation using 4 buttons
- Plug & Play

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Technical data

Measurement capabilities

Measuring rate variation, amplitude and beat errors in mechanical watches with a variety of display modes.

Beat number

Automatic selection of all common beat numbers. Manual selection of less common beat numbers. Manual selection of any beat number between 3'600 to 72'000 b/h.

Measuring mode

- **Std** Standard mode / Swiss anchor escapement
- **Spe1** Mode for watches with Co-Axial escapement
- **Spe2** Mode for watches with AP escapement
- **Rate** For rate measurement only

Gain control

- fully automatic
- manual for watches with background noise or unusual beat noises

Adjustment Possibilities ChronoMaster

— Continuous Diagram Recording

Selectable integration time: 4A, 2, 4, 6, 8, 10, 20, 30, 40, 50, 60, 120, 180 and 240 s
Adjustable zoom: 1, 2, 4, 8, 16 x

— Vario Display Mode

Measuring time: adjustable from 4 s to 99:59:58h

Adjustment Possibilities ChronoMaster Pro

— Continuous Diagram Recording

Selectable integration time: 4A, 2, 4, 6, 8, 10, 20, 30, 40, 50, 60, 120, 180 and 240 s
Adjustable zoom: 1, 2, 4, 8, 16 x

— Vario Display Mode

Measuring time: adjustable from 4 s to 99:59:58h

— Trace Display Mode

Selectable measuring time: from 4 s to 99:59:58h
Adjustable zoom: 1, 2, 4, 8 x

— Sequence Display Mode

Stabilisation time: adjustable from 2 s to 2 min
Measuring time: adjustable from 4 s to 10 min
Measuring cycle: adjustable from 1 to 10 test positions

— Polar Display Mode

Rotation time: 24, 30, 60, 120, 180 and 240 s
Rotation sense: clockwise / counterclockwise
Measuring time: adjustable from 4 s to 01:00:00 h

— Scope Display Mode

Selectable time deviations: 20, 200, 400 ms
Average beat noises

Measuring Ability

Rate accuracy:	numerical display in s/d
Resolution:	selectable 1.0, s/d, 0.1 s/d or 0.01 s/d
Measuring range:	± 999 s/d
Accuracy:	± 0.1 s/d
Amplitude:	numerical display in degrees
Resolution:	1° or 0.1°
Measuring range:	70° to 360°
Accuracy:	± 1.0°
Lift angle:	adjustable from 10° to 90°
Resolution:	0.1°
Beat error:	numerical display in milliseconds
Resolution:	0.1 ms
Measuring range:	9.9 ms
Accuracy:	± 0.1 ms

Time base

- TCXO quartz, high-frequency quartz time base
- Stability: ± 0.08s/d
- Ageing in 1st year: ± 0.03s/d

ChronoMaster details

- Compact microphone with integrated measurement electronics
- Automatic detection of 6 main positions, 4 vertical positions and 2 special positions
- Guided sequence mode, adjustable 1 to 10 testing positions
- Secure mount, even for large watches
- Accurate positioning every 45°
- Convenient operation of «Chronoscope Service» display software, thanks to built-in control buttons

Interface:	USB port, Type A connector
Housing:	Die-cast zinc, painted black
Dimensions:	130 x 110 x 110 mm (W x H x D)
Weight:	0,8 kg

Requirements of PC

- Suitable processor (CPU) for operating system Windows 7 Windows 8.1 or Windows 10
- Minimum 4 GB RAM
- USB interface: 2.0
- Screen with a minimum resolution of 1024 x 768 pixels