# ChronoMaster® Air









# ChronoMaster Air, the smart, compact and wireless microphone!

The Air version of the tried and trusted ChronoMaster microphone with built-in, smart measurement electronics is even more versatile and more user-friendly, thanks to its wireless Bluetooth connection. This precision measuring device can recognise 12 test positions and facilitates the comprehensive measurement and analysis of rate deviation, beat error and amplitude.

### Fully wireless with Bluetooth and rechargeable battery

The ChronoMaster Air can be operated via a USB port connected to the mains electricity supply, as well as autonomously for up to 20 hours with its built-in rechargeable battery and wireless Bluetooth connection. It takes up little space and enables you to position it exactly where you want it without any cables getting in the way.

## WiCoTRACE and iOS app ChronoMaster Air

WiCoTRACE and Chronoscope Service for Windows PC, as well as the app for Apple iPads are prepared for ChronoMaster Air and offer the optimal software for every need.

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#### ChronoMaster Air

- Compact microphone with integrated measurement electronics for testing mechanical watches
- Wireless thanks to integrated Bluetooth interface and rechargeable battery with up to 20 hours' autonomous operation
- Rechargeable battery easy to charge using USB cable
- Automatic detection of the 6 main test positions, 4 intermediate vertical positions and 2 special positions
- Precise division of test positions into 45° increments
- Efficient software with guided sequence mode, adjustable for 1 up to 10 test positions
- Secure mounting, even for large watches
- Convenient and efficient operation thanks to built-in control keys
- Ergonomic watch adjustment thanks to stable hand rest for both left- and right-handed users

# General

Operation	4 push-buttons	
Compatible display devices	Windows PC Windows tablet	
Software	WiCoTRACE * Chronoscope Service (max. 2 channels)	
Interfaces	USB type A (dispositif type C) Bluetooth	
Dimensions	130 x 110 x 110 mm (W x H x D)	
Weight	645 g	
Rechargeable batteries	4x NiMh type AAA, replaceable	
Battery life	up to 20 hours	

<sup>\*</sup> In Bluetooth mode, up to two ChronoMaster Air can be connected simultaneously. While, up to ten can be connected via a USB connection.

### Measurement

Measurement principle	Acoustic measurement of beat noises
Rate	-1'000 +1'000 ± 0.1 s/d
Amplitude	70 360° ± 1.0°
Beat error	0 9.9 ms ± 0.1 ms
Beat error	0 9.9 ms ± 0.1 ms

## Measuring conditions

Stabilisation time	Manual
Amplification	Automatic or manual
Measurement time	Manual, 2 s to 300 h
Test positions	12 **
Frequency	Automatic or manual, 3,600 to 72,000 A/h
Lift angle	Manual, 10 to 90°
Time base	TCXO (± 0.086 s/d)
Ambient conditions	Temperature: 5 40 °C Relative humidity: max. 80 %

<sup>\*\*</sup> depending on the used software or display device