

Watch Expert





Item no. WT-W/EXPERT

Watch Expert – High Tech for Professionals

The most advanced WATCH EXPERT ever was developed to meet the requirements and demands of watchmaking experts. Generations of watchmakers have used it in the practice of their skills – here is the very latest WATCH EXPERT in its fourth generation.

- The most important results at one glance
- · Work comfortably on a reflection-free display
- Automatic recognition of 11 test positions
- · Quick and easy to switch between test positions
- Comfortable control of the WATCH EXPERT via microphone



NEW WATCH EXPERT Highlights

WATCH EXPERT is the ideal measuring instrument for testing the rate accuracy, amplitude and beat error of mechanical watches. Apart from its precision measurements and multiple measurement modes, the latest WATCH EXPERT offers unique convenience at work. New: now you can work with a high-quality glass capacitative touchscreen. The display of your measurement results is brilliant, high-contrast and reflection-free. You can navigate the menus on the large colour display with four control buttons on the new microphone. WATCH EXPERT offers watchmaking experts ergonomics, comfort and precision.

Work comfortably on a

reflection-free display Your eyes stay healthy, thanks to Can be operated even while the AR-coated glass surface of the With six adjustable angles of inclinawearing finger cots or gloves display. tion, you can adjust the device to the The new capacitive touchscreen enoptimal position for your needs. ables intuitive operation, even when wearing finger cots or gloves. The most important results at one glance The diagrams of all 6 main test positions can be seen at just one glance. The median value and diagram for each test position can be called up individually. WATCH EXPERT mod.dép. Precise analysis of acoustic signals Space-saving and The loudspeaker is directed forwards, Efficient and time-saving ergonomic working making every irregularity in the beat working More space for manual tasks noise audible. Save time with simple and individuthanks to the modern and

Fatigue-free working

ally selectable access to the required parameters.

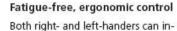
ergonomic design.



NEW PILOT MICROPHONE interactive microphone

Test large watches with wide wrist straps

New geometry: large watches with wide wrist straps also fit the microphone without problem.



dividually set their chosen position and benefit from the stable hand rest.

Precise positioning every 45°

8 locking positions enable precise positioning every 45°.



Safe and secure mount, even

Neoprene clamping jaws and opti-

safely test heavy, large watches.

mised clamping range mean you can

for heavy, large watches

Automatic recognition of 11 test positions

Automatic recognition of the 6 main test positions, the 4 vertical intermediate positions and the new grid position for the universal test position 7:30h + 45°. mod.dép.

Quick and easy to switch between test positions

180° swivelling, tilting function: quickly and directly switch between the test positions "DU" and "DD". Unrestricted rotatability of the microphone: switch into the vertical positions extremely quickly.

Comfortable control of the WATCH EXPERT via PILOT MICROPHONE

You can control the WATCH EX-PERT featuring the new, interactive microphone with the buttons on the microphone base. The buttons are individually programmable.



Technical data

Measurement capabilities

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

Beat number

- Both automatic determination and manual entry possible
- Beat numbers available in case of automatic determination: 12'000, 14'400, 18'000, 19'800, 21'600, 25'200, 28'800, 32'400, 36'000, 43'200, 50'400, 57'600, 64'800, 72'000A/h
- Manual entry: Beat numbers from 3,600 to 86,400 A/h (current or individual values)

Measuring mode

- Stnd 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

Display modes

Diagram

- Continuous diagram recording of watch beat
- Numerical display of measured values
- (rate variation, amplitude and beat errors) Recording diagram and results in 6 positions, subsequent recall possible
- Adjustable zoom (magnifier): 1, 2, 4, 8, 16 x

Vario

- Long-term checking of stability and diversity of
- rate deviation and amplitude (max.100 hours) - Graphic and numerical display of minimum,
- median and maximum values
- Numerical display of actual rate variation, amplitude and beat errors
- Display of min., max. and median values for rate variation and amplitude since measurement start

Time base

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

Rate variation measurement

- Measurement range: ± 999.9s/d
- Resolution: 0.1 s/d

Amplitude measurement

– Measurement range:	70° to 360°; display possible to 999°
– Resolution:	1°
Lift an alay	adjustable from 100 to 000

- Lift angle: - Resolution:
- adjustable from 10° to 90° 0.1°

Beat errors measurement

- Measurement range: 9.9 ms
- Resolution: 0.1 ms

Integration time measurement

Adjustable: 4A, 2, 4, 6, 8, 10, 20, 30, 40 and 60 s

Screen

- Capacitive touchscreen
- Size:
- Resolution:
- adjustable to 500 cd/m² Brightness:

Measurement display Speed:

- dependent upon beat number of watch
- Display width: 720 pixels
- Recording duration per display width (e.g.): 18'000A/h: 144 seconds 21'600A/h: 120 seconds
 - 90 seconds

800 x 480 pixels

72 seconds

Position recognition

Automatic recognition of the 6 main positions as well as 5 further positions

Loudspeaker

28'800A/h:

36'000A/h:

Integrated loudspeaker for acoustic testing of the beat noise

RS232 interface

- Printer and calibration interface; GPS receiver

USB interface

- Connection for memory stick
- Print screens can be saved as pictures on the stick
- Device configuration can be saved or read on the stick

Bluetooth interface

Witschi printer with optional Bluetooth mode

Device (housing)

- Front: Glass with integrated touchscreen – Back: Plastic - Dimensions: 197x164x130 mm (WxHxD) can be set to 6 different levels

mains adapter

1.7 kg including pilot microphone and

- Angle:
- Weight:

Mains connection

100 ... 240 VAC, 50/60 Hz Mains adapter: – Power consumption: 8 W, (4W with screensaver) - Output: 12VDC, 1.5A

Accessories

Optoelectronic sensor for pendulum wa	tches Art. 13.1620
Tripod for optoelectronic sensor	Art. 13.16.201
Thermal printer	JB01-SLK-TE2
Dongle and Bluetooth slot	95.1510
Dongle for additional device	JB15-BT900-US
Thermal paper for printer	JB01-MM60-740RS
Witschi GPS receiver	Art. 19.91PK1 (230 V~) 19.91PK2 (120 V~)