LEADING SWISS PRODUCTS

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



Witschi Electronic Ltd. Bahnhofstrasse 26 | 3294 Büren an der Aare | Switzerland Phone +41 (0)32 352 05 00 | welcome@witschi.com | www.witschi.com Can be operated even while

wearing finger cots or gloves

The new capacitive touchscreen en-

NEW WATCH EXPERT Highlights

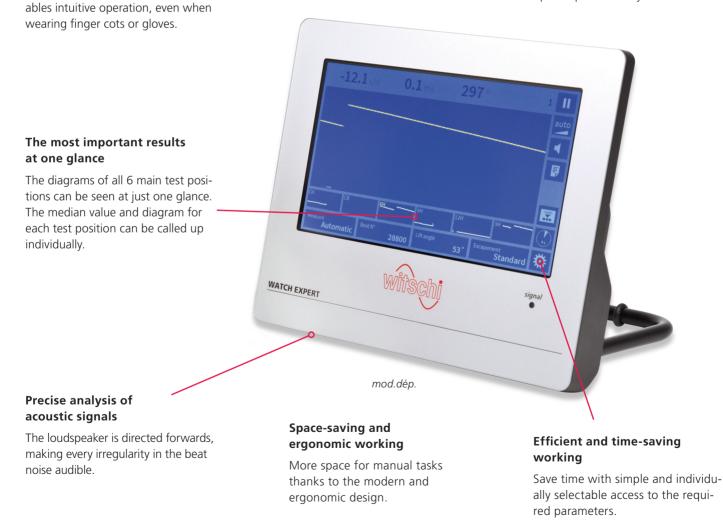
WATCH EXPERT is the ideal measuring instrument for testing the rate accuracy, amplitude and beat error of mechanical watches. Apart from its precision measurements and multiple measurement modes, the latest WATCH EXPERT offers unique convenience at work. New: now you can work with a high-quality glass 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.

Fatigue-free working

Your eyes stay healthy, thanks to the AR-coated glass surface of the display.

Work comfortably on a reflection-free display

With six adjustable angles of inclination, you can adjust the device to the optimal position for your needs.



NEW PILOT MICROPHONE interactive microphone

Safe and secure mount, even for heavy, large watches

Neoprene clamping jaws and optimised clamping range mean you can safely test heavy, large watches.



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

Fatigue-free, ergonomic control

Both right- and left-handers can individually set their chosen position and benefit from the stable hand rest.

Precise positioning every 45°

8 locking positions enable precise positioning every 45°.



mod.dép.

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 $7:30h + 45^{\circ}$.

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° 10 - Resolution
- Lift angle:
- adjustable from 10° to 90° – Resolution: 010

Beat errors measurement

- Measurement range: 9.9 ms 0.1 ms
- Resolution:

Integration time measurement

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

Screen

- Capacitive touchscreen
- Size.
- Resolution: - Brightness:

Measurement display

- dependent upon beat number of watch - Speed: 720 pixels
- Display width:
- Recording duration per display width (e.g.): 18'000A/h: 144 seconds 21'600A/h: 120 seconds 28'800A/h: 90 seconds 36'000A/h: 72 seconds

Position recognition

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

7"

800 x 480 pixels

adjustable to 500 cd/m²

Loudspeaker

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
 - 197x164x130 mm (WxHxD)

mains adapter

12VDC, 1.5A

- Dimensions: - Angle: - Weight:
- can be set to 6 different levels 1.7 kg including pilot microphone and

100 ... 240 VAC, 50/60 Hz

8 W, (4W with screensaver)

Mains connection

- Mains adapter:
- Power consumption:
- Output:

Accessories

Optoelectronic sensor for pendulum wa	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~)

Technical details subject to changes

11.2710D41e - 07/2016