

Analyzer Q1



Analyzer Q1 – reference device for professional testing of quartz watches

The Analyzer Q1 provides excellent measurement and testing facilities for the specialist testing and measurement of quartz watches. The Analyzer Q1 is a testing device for efficient use in a repair service as well as for analyses during watch production, in watch-making laboratories and in sales situations.

Extensive measurement options

The measurement sequences of the Analyzer Q1 are extensively automated and the ergonomic rotary and press button allows you to make parameter settings quickly and easily. The chopping-level of motor pulses of watches or watch movements with a chopped pulse is determined by the Analyzer Q1 even when the watch case is closed.

Functional all-in-one device

A triple-sensor picks up acoustic, capacitive and magnetic signals and long-term analyses are also possible. The results are clearly laid out on the large LCD display.

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- Compact and ergonomic measuring device for open and closed quartz watches.
- A mirror allows you to see the dial so as to monitor the hands while taking all measurements.
- Battery tester for low and high drain batteries with connectible load resistors.
- Resistance and isolation testing for inspection of coils.
- As well as displaying rate accuracy, it can also measure period duration, chopping-level and much more.
- Suitable for watches containing "SuperQuartz" with an inhibition period of 480 ... 960s.
- A highly sensitive triple sensor records signals in "closed" quartz and mechanical watches.
- Logs of numerical measurement results can be printed out using the Witschi thermal label printer.
- Adjustable screen angle for a more ergonomic experience.

General

Operation/display	LCD graphic display - monochrome - 320 x 240 pixel resolution - backlit
Languages	German, French, English
Interfaces	3 x RS232 for connecting the Witschi thermal printer, a PC and the Witschi GPS receiver. 1x DIN 8-pin for connecting an external signal sensor.
Dimensions	290 x 180 x 170 mm (W x H x D)
Weight	2.8 kg
WiCoTRACE	no

Measurement

Measurement principle/measurement options	Acoustic/capacitive/inductive For measuring rate variation, electricity consumption, coil resistance, isolation and battery voltage
Rate	-300 ... +300 s/d
Rate (mech. watches) Half-oscillations	12,600, 18,000, 19,800, 21,600, 25,200, 28,800, 32,400, 36,000 A/h
Voltage	0 ... 3.5 V
Power	0 ... 20 mA
Resistance and isolation of the coil	5 Ω ... 10 M Ω

Measurement conditions

Measurement time	2 ... 960 s
Power supply	0 ... 3.5V, termination 0.05 V
Time base	OCXO (\pm 0,004 s/d)