

Weishi

QT—8000B

User's Guide and Technical Reference Manual

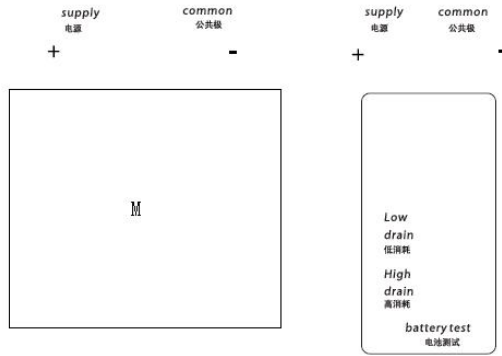


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QT-8000B

signal 信号	rate 走时精度	sec/day	contin. 连续性	module 机芯	μA 微安	V 伏特	选择1	power 电源
quartz 石英		秒/天	open 开路		mA 毫安	S 秒	X	
LCD 液晶显示器		sec/month	short 短路		V 伏特	mS 毫秒	X*	
motor 电机			parameter 参数		kohm 千欧	pf.nr 程序号	选择2	

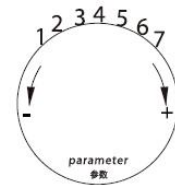
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QT-8000B
 magnetic/capacitive 磁性/容性



test control 测试控制
print result 打印结果
start progr. 开始编程
start test 开始测试

test mode rate 快捷测试方式	石英 32KHz 容性/磁性
quartz 32khz	ac./cap.
LCD	cap. 液晶显示器 容性
stepp.motor	mag. 步进电机 磁性
mechanical	ac. 机械 音频
tuning fork	mag. 音叉 磁性

test mode module 机芯测试方式	消耗微安
consumption μA	消耗毫安
consumption mA	电池测试
battery test	电阻
resistance	脉冲发生器
pulse generator	响闹测试
alarm test	



Measurement of the rate accuracy, the current consumption and test of components of quartz watches. For repair service, the watchmaker needs a test instrument with a simple way to perform all electric measurements and tests on quartz watches. The instrument provides all measuring and test facilities required in a professional search for defects in quartz watches.

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Technical data

Rate measurement

Test mode

- Measurement over the quartz 32khz ,or over the supply current.
- Measurement over the motor pulses.
- Measurement over the LCD operation frequency.
- Measurement over the magnetical signal for tuning fork watches.
- Signal sensing acoustical (external sensor required)for mechanical watches.

Measuring time

- Measurement over the quartz frequency :1S
- Measurement over the motor pulses or the LCD-operation frequency:2—960S
- Mechanical or tuning fork watches :4S

Signal sensor:

- Sensors of highest sensitivity and selectivity for acoustical,magnetical and capacitive signals.
- Current of the supply
- LED display the signal intensity

Display of the results

- 3 large LCD
- Selectable display mode in s/day or s/month
- Measuring range:±9.99s/day or±300s/month
- Resolution 0.01s/day resp. 1s/month

Time base

- High frequency quartz time base ,OCXO.
- Stability :max±0.01s/d between 10°Cto 30°C

Current measurement

- Measurement mode:the average current consumption over the measuring period.
- Measuring range :100μA,resolution 10 nA
 - 1mA ,resolution 100nA
 - 10mA ,resolution 1mA
 - 20mA, resolution 10mA
- Range selectable mA or μA by manual ,in the range automatically.
- Measurement time: 1~60S

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Module power supply

Supply voltage:adjustable ,0~3.5V ,resolution 0.05V

Current limited:3mA for μ A range test ,and 50mA for mA range

LED indict for circuit shorted or opened

Battery /voltage test

Measuring range from 0 to 5V

Load :1K Ω , 100 Ω

Resistance measurement

Measuring range: 1K Ω , 10K Ω , 100K Ω , 5M Ω .Automatic commutation of the measuring range

Pulse generator

Pulse generator for the stepper motor-coil of the watch

Wave :bipolar square wave

Pulse width:programmable 1~60mS

Frequency: 16Hz under 16ms of the pulse width but over the 16ms is 8Hz.

Voltage: 0~3.5V

Buzzer test

Bipolar square wave signal

Frequency:2kHz

Voltage: 0~3.5V

Special program

Parameter setting

The multifunction rotating/push knob allows easy and quick parameter settings and display on the LCD.

Interface

RS232 for the connection of the mini dot matrix printer CBM-910 .Print out of the numeric results.

Additional Functions

Built-in mirror for the observation of the hands during measurement

Details

Casing: aluminum and wood

Dimensions:284 \times 233 \times 75mm

Weight:2Kg

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Supply power

AC230V or AC120V input and output AC 9V 1.2A adapter,consumption:max10W

Standard accessories

QT-8000B : 1Set

Test tips with wire : 1 pair

Adapter :AC230V or AC120V : 1 set

Manual book 1pc

Option accessories

Printer :Dot matrix mini printer CBM910 ,CITIZEN,and adapter(AC230V or AC120V) ,cable

External sensor