

[LAB] Zoyi ZT-DQ02: Características técnicas

General Technical indicators

Display (TFT)	2.8 inches, 320*240
Measuring range	Auto
Material	ABS + TPE
Sampling rate	Adjustable
Data hold	✓
Screen backlighting	✓
Low battery tips	✓
Automatic shutdown	✓

Mechanical technical index

Dimensions	177 * 89 * 40 mm
Weight	345g (without battery)
Battery type	2000 mAh lithium battery * 1
Warranty period	One year

Environmental technical indicators

Working environment	Temperature	0 ~ 40 °C
	Humidity	< 75%
Storage environment	Temperature	- 20 ~ 60 °C
	Humidity	< 80%

Bridge symbol Description

Symbol	Description	Symbol	Description
R	Resistance	LEVEL	Voltage Level
C	Capacitance	SPEED	Measurement Speed
L	Inductance	AUTO	Auto mode
Z	Impedance	SETUP	Setup Mode
X	Reactive	HOLD	Hold Function
D	Wear and tear	BATT	Battery Internal Resistance
Q	Factor of quality	REC	Record Mode
Theta.	Phase Angle	TOL	Tolerance Mode
ESR	Equivalent resistance	REL	Relative Value
S	Tandem equivalent	Hpot	Voltage Sampling High End
P	Parallel equivalent	Hcur	Current Sampling High End
ECAP	Electrolytic capacitor	Lpot	Voltage Sampling Low End
FREQ	Frequency	Lcur	Current Sampling Low End

Technical indicators of hand-held bridge

Functional characteristics	Instructions
Measuring function	Automatic, resistance, capacitor, inductance, impedance, electrolytic capacitor, internal resistance of battery
Main Parameters	L, C, R, Z
Subparameters	X, D, Q, θ , ESR
Equivalent mode	Series, parallel
Inductive range	0~100 H
Capacitance range	0~100000 μ F
Resistance range	0 ~ 10 m Ω
Test frequency	100 Hz, 120 Hz, 1 KHz, 10 KHz, 100 KHz
Test level	0.1 V, 0.3 V, 0.6 V
Highest accuracy	0.3 %
Measuring speed	1 second/time, 2 seconds/time, 4 seconds/time
Output impedance	100 Ω

Internal resistance part of the battery	Voltage range: $\pm 100V$
	Resistance range: $0.1\text{ m}\Omega \sim 200\text{ }\Omega$
	Resistance accuracy: $0.5\text{ }\%$
	Voltage accuracy: $0.2\text{ }\%$
Language	Chinese, English
Brightness	$25\text{ }\%$, $50\text{ }\%$, $75\text{ }\%$, $100\text{ }\%$ adjustable
Automatic shutdown	15 minutes, 30 minutes, 45 minutes, 60 minutes, turn off
Buzzer	Open and close
Bridge calibration	Short circuit, open circuit
Endurance time	13h

Refer to the precision comparison table

Types	Range	100/120Hz	1KHz	10KHz	100KHz
Capacitance	1mF~100mF	$5\% \pm 5$	$5\% \pm 5$	—	—
	1uF~1mF	$1\% \pm 5$	$1\% \pm 5$	—	—
	1nF~1uF	$2\% \pm 5$	$0.5\% \pm 5$	$0.5\% \pm 5$	$1\% \pm 5$
	1pF~1nF	—	$1.5\% \pm 5$	$2\% \pm 5$	$2\% \pm 5$
Inductance	1H -100H	$3\% \pm 5$	$3\% \pm 5$	—	—
	1mH~1H	$0.5\% \pm 5$	$0.5\% \pm 5$	—	—
	10uH ~ 1mH	$3\% \pm 5$	$0.5\% \pm 5$	$0.5\% \pm 5$	$1.5\% \pm 5$
	1uH ~ 10uH	—	$3\% \pm 5$	$3\% \pm 5$	$4\% \pm 5$
Resistance	100K Ω ~ 10M Ω	$5\% \pm 5$	$3\% \pm 5$	—	—
	1 k Ω ~ 100K Ω	$0.4\% \pm 5$	$0.3\% \pm 5$	$0.3\% \pm 5$	$0.5\% \pm 5$
	1 Ω ~ 1K Ω	$1.5\% \pm 5$	$0.3\% \pm 5$	$0.3\% \pm 5$	$0.5\% \pm 5$
	0.01 Ω to 1 Ω	$4\% \pm 5$	$3\% \pm 5$	$3\% \pm 5$	$5\% \pm 5$

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