

Portable 3-in-1 mini oscilloscope FNIRSI DSO-TC4



Model: DSO-TC4

Manufacturer: FNIRSI

EAN: 5907085527192

Product Code: 1094697

R2,055

Portable mini 3-in-1 oscilloscope FNIRSI DSO-TC4

FNIRSI DSO-TC4 is a device that combines three functions: digital oscilloscope, electronic component tester and signal generator. By combining waveform analysis with component recognition and signal test functions, it will prove useful in service applications. In addition, the intelligent Anti-Burn function protects the input circuit from damage when measuring probes are connected incorrectly. This makes the equipment safe to use even for less advanced users.

Measurement functions and signal analysis

The device offers a measurement bandwidth of up to 10 MHz and a sampling rate of 48 MSa/s. It can display waveforms with high detail and accuracy, allowing real-time analysis of voltage signals. With 13 predefined waveforms and frequencies in the range of 0-50 kHz (amplitude 0.1-3.0V), the signal

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generator allows simulation of various circuit operating conditions.

Extensive component testing capabilities

The integrated component tester automatically recognizes diodes, transistors (including MOSFETs), resistors, capacitors and other passive and active components. With test sockets and intelligent component detection, quick diagnostics and parameter identification are possible.

Convenient operation

A 2.8-inch TFT color screen provides easy-to-read data and graphs. The user interface supports eight languages, making it easy to configure the device. The control panel is designed for quick access to key functions, such as auto mode, pause, and mode change.

Connectivity and power supply

The oscilloscope features a USB-C port for charging and data transfer. The ability to export waveforms to a computer facilitates further analysis and archiving of results. A built-in 1,500 mAh lithium-ion battery ensures long operation of the device, and an automatic sleep mode extends the operating time between charges.

Included

- oscilloscope
- P1600 probe
- crocodile clamp
- 3x test hooks
- user manual
- USB-C charging cable
- adapter

Oscilloscope

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Manufacturer	Fnirsi
Model	DSO-TC4
Display	TFT color screen 2.8 inches
Backlighting	Adjustable brightness
Power supply	USB Type-C (5V/1A)
Battery	Lithium-ion 3.7V, 1500mAh
Languages	8 languages (including Chinese, English, German, Portuguese, Japanese, Spanish, Korean, Russian)
Dimensions	approx. 90×142×27.5mm
Weight	186 g
Real-time sampling rate	48MSa/s
Analog bandwidth	10 MHz
Input impedance	1MΩ
Coupling mode	AC/DC
Test voltage range	Probe 1:1 - 80Vpp (±40V); Probe 10:1 - 800Vpp (±400V)
Vertical sensitivity	10mV/div-10V/div (X1 range)
Vertical offset	Adjustable with indication
Time base range	50ns-20s
Trigger modes	Auto / Normal / Single
Trigger type	Rising edge, Falling edge
Trigger level	Adjustable with indication
Freeze waveform	Yes (HOLD function)
Automatic measurement	Max, Min, average, RMS, Vpp, frequency, period, fill factor (duty cycle) values

Transistors

Diode Range: Voltage drop 5V

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Zener diode	Range: 0.01-32V; reverse breakdown voltage (K-A-A test area).
Field-effect transistors (FETs)	JFET - measurement of gate capacitance (Cg), Id current at Vgs and voltage drop across guard diode (Uf); IGBT - measurement of drain current at Vgs, voltage drop across guard diode (Uf); MOSFET - threshold voltage (Vt), gate capacitance (Cg), drain-source resistance (Rds), voltage drop across guard diode (Uf).
Thyristors (SCR)	Unidirectional - trigger voltage 5V, gate level; bidirectional - trigger current 6mA
Capacitors	Range: 25pF-100mF, capacitance and loss factor (Vloss) measurement
Resistors	Range: 0.01Ω-50MΩ
Inductor	Range: 10μH-1000μH

Signal Generator

Output waveform Supports 13 types of waveforms

Waveform frequency 0-50 kHz

Waveform fill factor 0-100%

Waveform amplitude 0.1-3.0V

GPSR Link: https://psr-assets.innpro.pl/tools/sg_tools_measuring_tools.pdf, Gross weight: 430, Net weight: 187, Box length: 19,50, Box width: 9,50, Box height: 5,50, Information about data generation: <https://dataact.innpro.pl/fnirsi/5907085527192>, PPWR: <https://ppwr.innpro.pl/fnirsi>

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