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MORE INFORMATION:

- Handheld Oscilloscopes Overview
- Product Support

Read Online:

OVERVIEW

SPECIFICATIONS

ORDERING INFORMATION

With four isolated channels and up to seven hours of battery life, the lightweight THS3000 Handheld Oscilloscope Series enables you to safely make floating or differential measurements on your bench or in the field. Now you can tackle tough environments with the performance you expect from Tektronix - safely and affordably.

Key performance specifications

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Applications

- Embedded analog and digital design
- Power devices, power electronics, and power supply design
- Automotive and avionics design and maintenance
- Industrial equipment design and installation
- Field test and service

Accurately measure your signals

With up to 200 MHz bandwidth, 4 channels, and 5 GS/s maximum sample rate, no other oscilloscope offers as much bandwidth and sample rate in a portable handheld form factor. The THS3000 Handheld Oscilloscope Series has 10,000 points record length per channel, enabling you to capture more signal information at higher sample rates to clearly see signal details. For applications where it is important to measure slow-changing signals over long time periods, the THS3000 Series offers Roll mode that extends the record length to 30,000 points of signal information.

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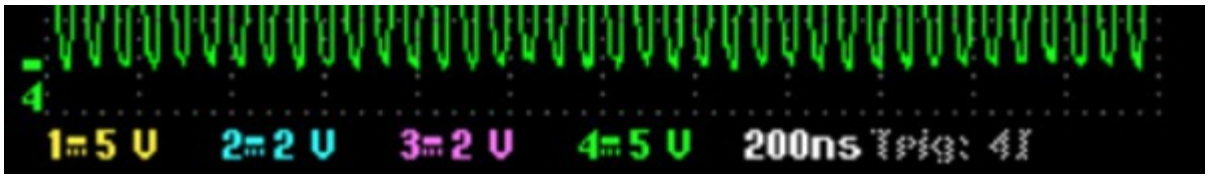
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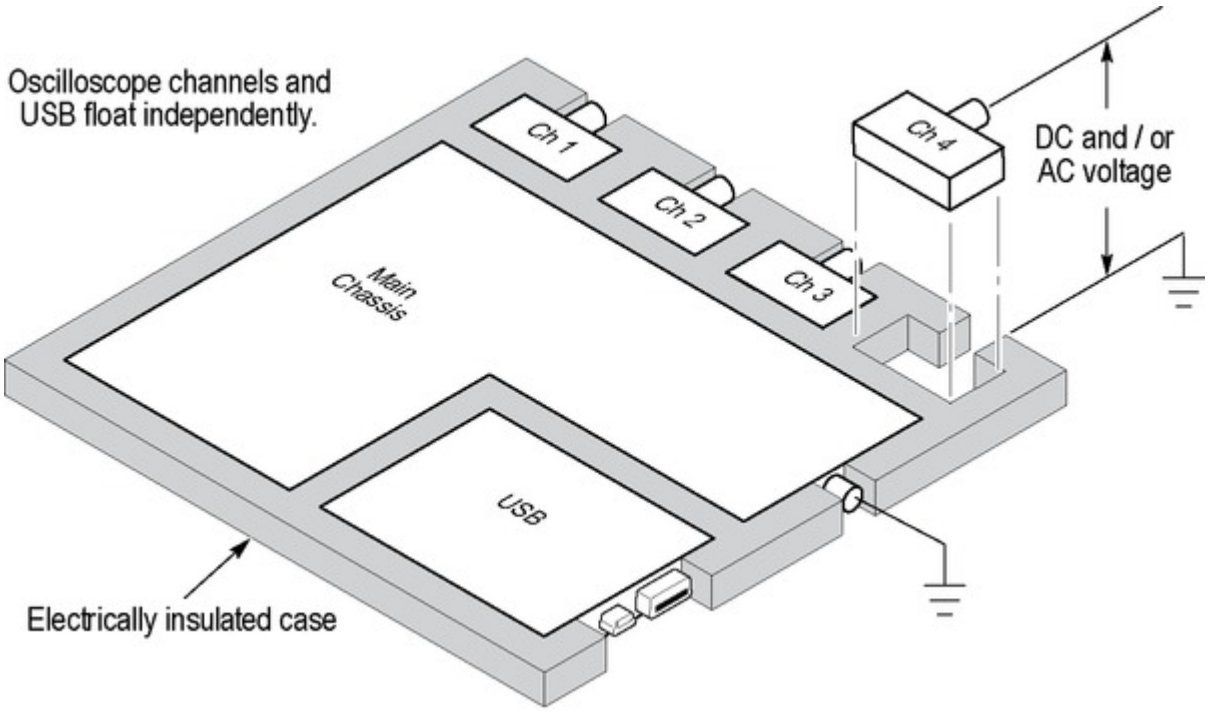
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Four isolated input channels easily handle any type of mixed signal inputs

Safely make floating and differential measurements



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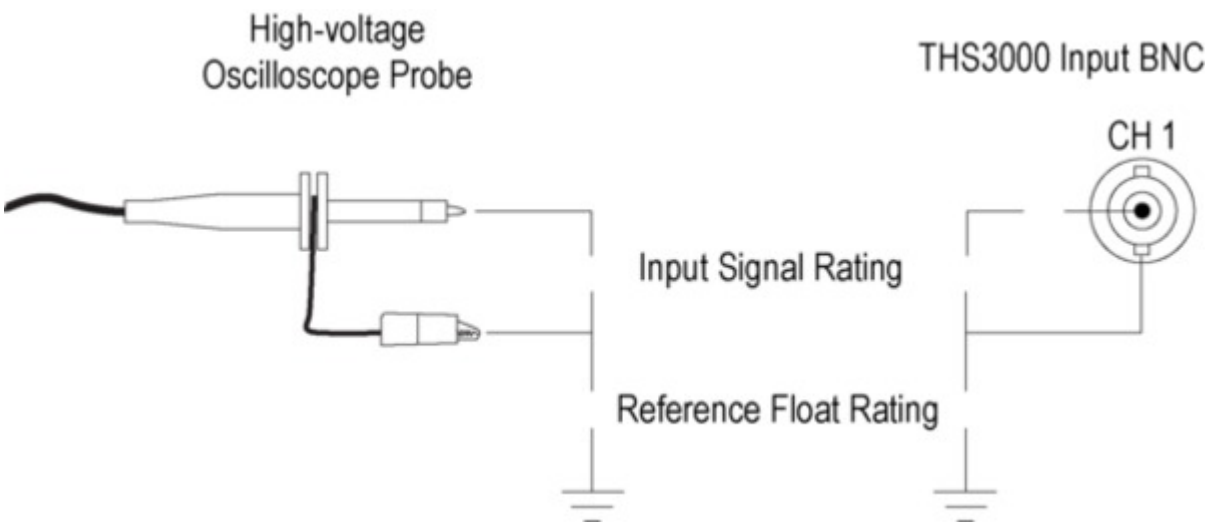
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Input signal and float voltage maximum safety ratings

Selecting the right probe

Scope/Probe (attenuation)	Maximum safety rating		THS3000 viewable signal	
	Reference float safety rating	Input signal safety rating	On-screen P-P voltage	On-screen RMS voltage
THS3000 (1X input)	600 V_{rms} CAT III	300 V_{rms} CAT III	800 V_{p-p}	282 V_{rms}
	1000 V_{rms} CAT II			

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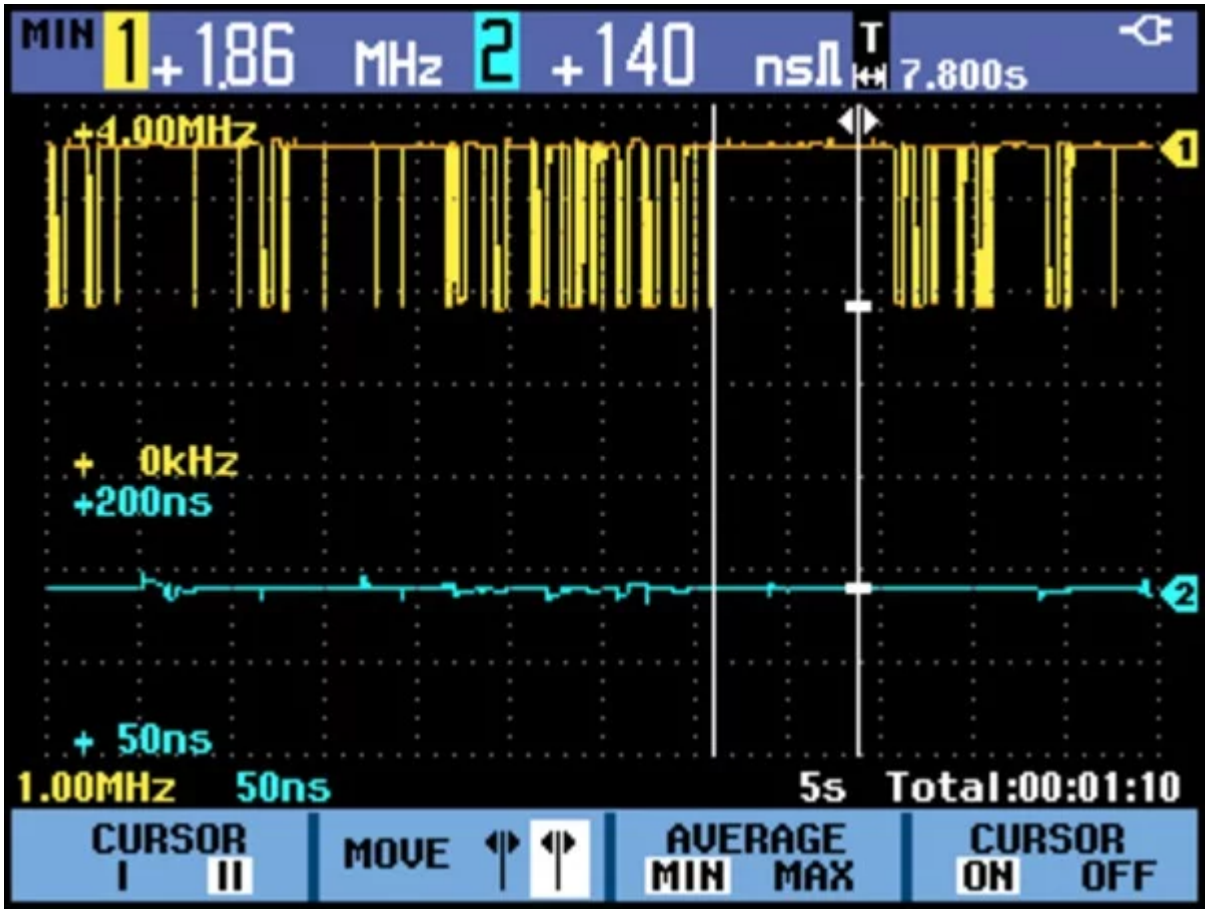
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measurements, you can make common measurements quickly and accurately. The built-in Fast Fourier Transform (FFT) function allows you to see the frequency spectrum of your signal, revealing signal interference, crosstalk, or switching noise.

Find intermittent faults with TrendPlot™



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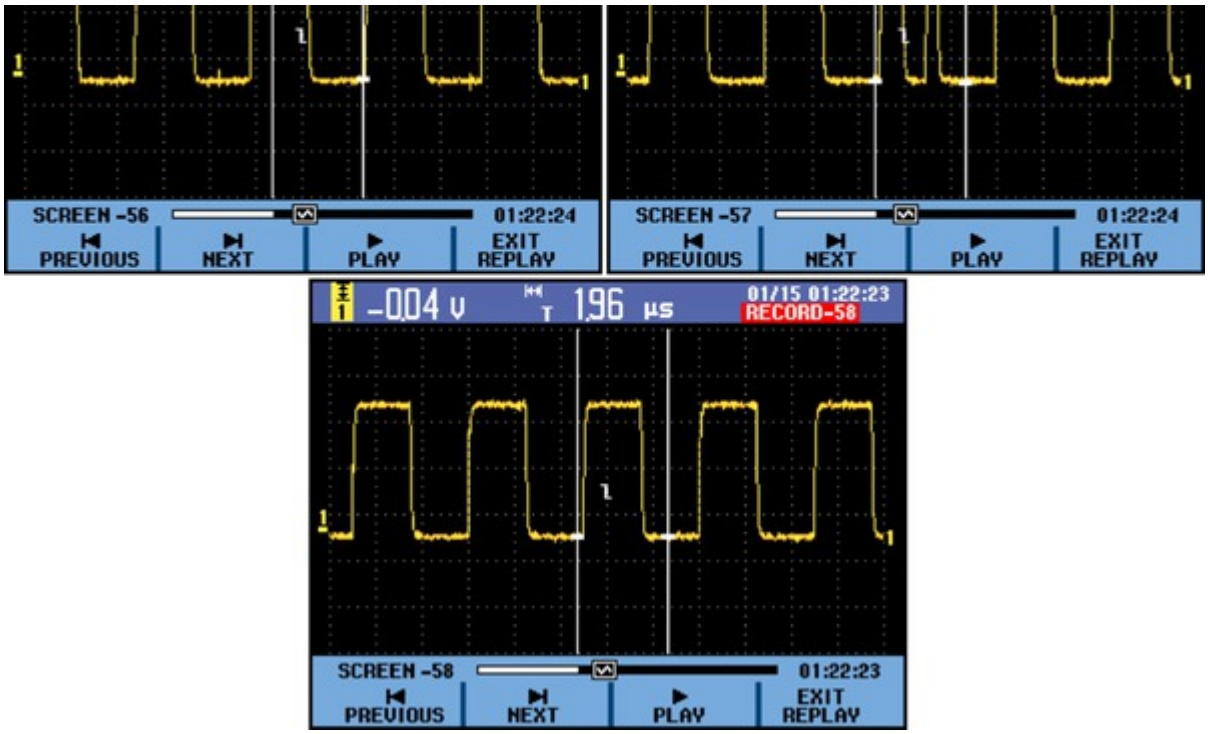
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Playback of captured data is quick and easy with the THS3000 series oscilloscopes

Capturing random or changing signals can often be difficult. The THS3000 Series greatly simplifies any type of waveform data logging by continuously capturing 100 display screens. Each screen capture can include multiple channels and math waveforms, each with its own time stamp. Data capture can also be tailored to specific events by selection of qualified trigger conditions. Playback is quick and easy with the automatic replay of all captured screens or only the screens you select.

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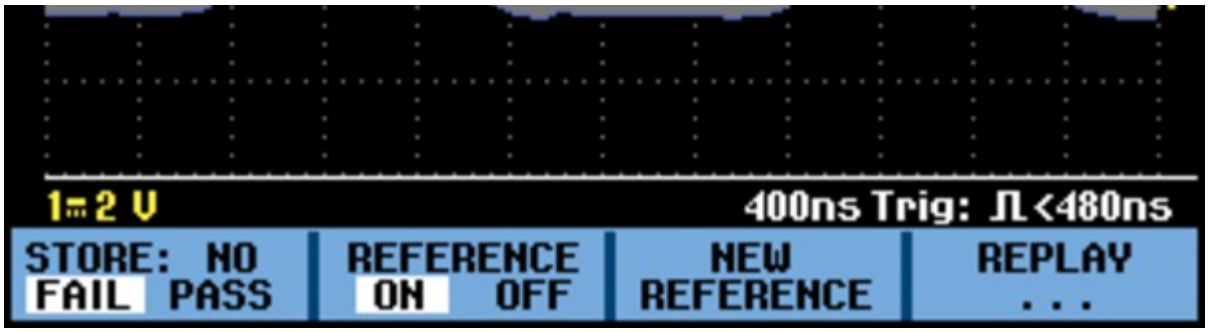
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User-defined limit testing can easily identify random waveform anomalies

The THS3000 Series can automatically monitor your signals and output Pass or Fail results by judging whether the input waveform is within predefined boundaries. User selections can include testing one or all input channels and automatic recording of Pass or Fail data. Data can easily be reviewed using the Replay mode or stored externally to a USB memory device.

Complete solution for power measurements

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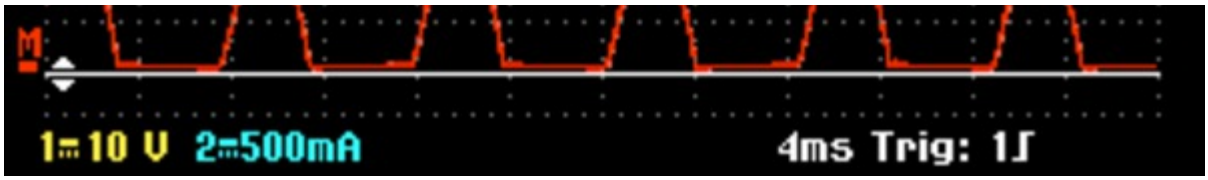
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Easily calculate the instantaneous power by multiplying voltage and current waveforms

For performing power measurement on motor drives, power converters/inverters, and power semiconductor devices the THS3000 Series is equipped to handle most common measurements. For basic debugging, the isolated input channels can be used with a variety of voltage and current probes. Each input channel can be configured to match the probe type and attenuation ensuring correct measurements and cursor readings. Four channels allow for easy measurements of three-phase power or simultaneous capture of digital control and power signals.

Measurements on power conversion electronics usually require probes with higher voltage ratings. Tektronix offers a passive probe with insulation systems specifically designed for making floating measurements. The standard THP0301-X can measure up to 849 V_{p-p}(300 V_{rms}). Optional P5122 probes, when coupled with the THS3000 Series, are suitable for making measurements on 1000 V_{rms}devices in Category II environments, with a maximum float voltage of up to 600 V_{rms}relative to earth ground.

Designed to make your work easier

Intuitive operation

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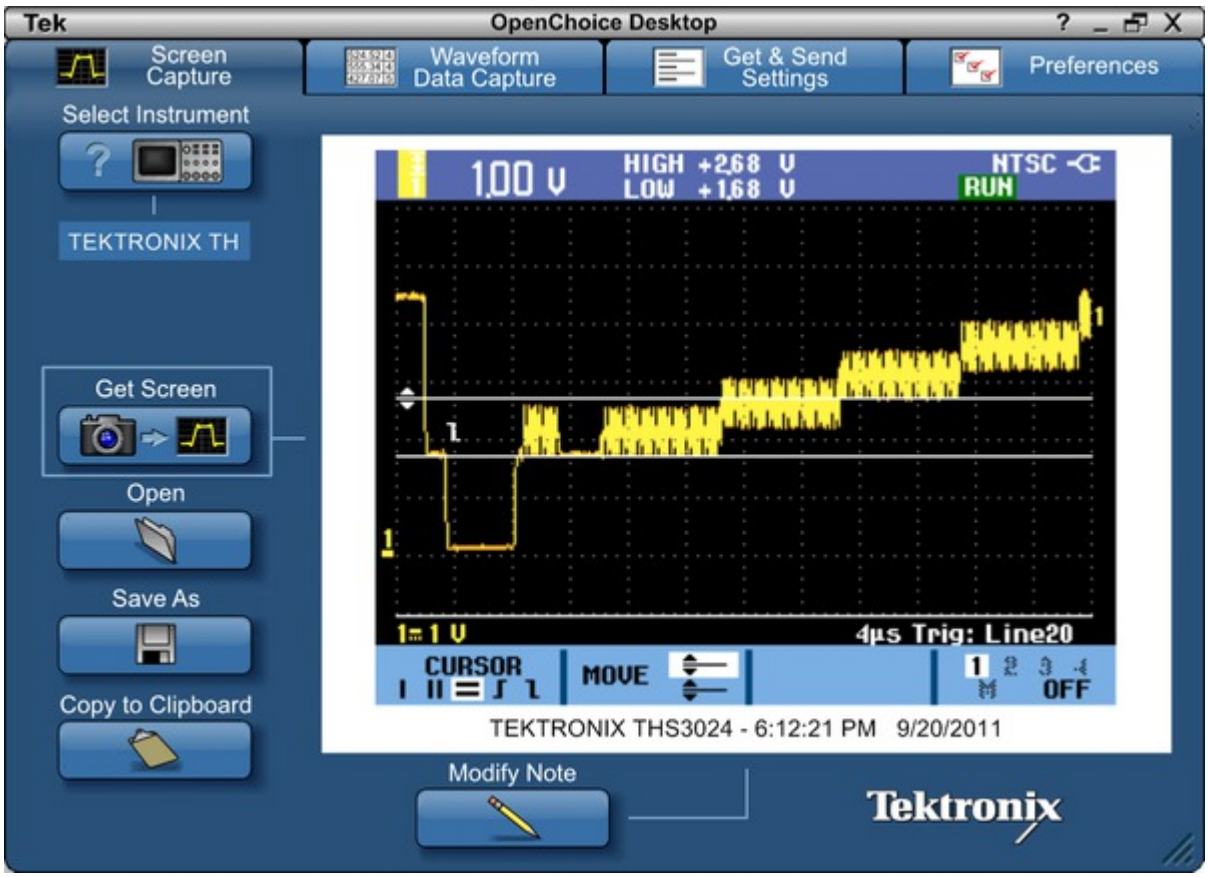
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Chinese, Korean, and Russian.

Flexible data transfer



Tektronix OpenChoice® desktop software extends the capabilities of your instrument

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The standard USB ports facilitate data storage, data transfer, and instrument control

The THS3000 Series oscilloscopes come with both a USB host and USB mini port located on the side panel enabling you to quickly and easily save instrument settings, screenshots, and waveform data onto a flash device or transfer the data directly to a PC. The THS3000 Series oscilloscopes are shipped with the Tektronix OpenChoice®desktop software, allowing you to integrate your new THS3000 Series oscilloscope into existing measurement systems and take advantage of extended functionalities in data acquisition, measurement analysis, and documentation.

Versatility and portability for wherever your job takes you

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The optional travel kit (TK) version includes a hard-sided carry case for your instrument, accessories, and storage space for a laptop PC.

With a battery life of 7 hours and a weight of only 4.8 lb. (2.2 kg) the THS3000 Handheld Oscilloscope Series offers ultimate portability. Measurements taken in the lab can now be conveniently correlated with those taken in the field - all on the same instrument. Rated IP41, the THS3000 Series features the ruggedness needed to go beyond the lab and into industrial and field environments. The optional travel kit comes with a hard-sided carrying case and useful accessories allowing you to take the THS3000 Series on the road securely and conveniently. From the lab to the field, the THS3000 Handheld Oscilloscope Series offers you the versatility of using a single, high-performance instrument suitable for a wide range of working environments.

Performance you can count on

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