Handyprobe HP3



A new standard in portable measuring

Long record length

1 MiSamples

High bandwidth

50 MHz

High Input Range

800 V

High sampling speed 100 MSamples/s

Differential

Plug In And Measure

- Oscilloscope
- Spectrum analyzer
- Voltmeter
- Y-t recorder

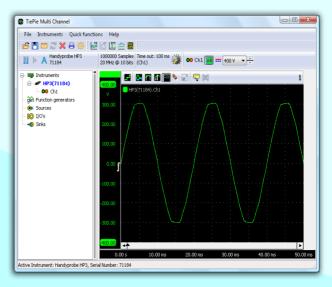
Handyprobe HP3

A new standard in portable measuring

The Handyprobe HP3 is a portable USB oscilloscope with a full differential input that will allow you to measure voltages up to 800 V peak value with a maximum sampling rate of 100 MSamples/s into a memory of 1 MiSamples.

High input range

The differential input with a high input range of 800 V full scale gives unequalled possibilities in measuring Connect the Handyprobe HP3 to any point in your circuit, without the need of additional attenuators. The differential input makes it impossible to create a short circuit to ground via the Handyprobe HP3. This means extra protection for the PC.



Portable

The Handyprobe HP3 is designed to fit nicely in your hand. Its housing is fitted with soft rubber areas that ensure a good grip on it. A wrist strap can be attached, to carry the Handyprobe HP3 or to hang it near the test setup. The Handyprobe HP3 is USB powered, so no bulky external power adapter is required.

Low noise measuring lead

A special low noise measuring lead is developed for the Handyprobe HP3. The input of the Handyprobe HP3 is differential, which means that both sides of the input have a high impedance. There is no connection to ground as in conventional oscilloscopes which are used with coax cables.

The special cable that is developed for the Handyprobe HP3 is very insensitive for external interfering signals. The two ends can be placed two meters apart from each other, without picking up any interference. It is possible to connect the negative terminal of the input at one side of your test object and then connect the positive terminal at a different point, up to two meters away. With a conventional oscilloscope this is not possible. The maximum distance between the positive side and ground is then usually limited to approximately 20 cm. And this 20 cm is very susceptible to interference. The measuring lead has a heat resistant silicone isolation and shrouded banana plugs.

Sophisticated software

The Handyprobe HP3 comes with the versatile Multi Channel measurement software that allows to do measurements in a quick and convenient way. With the software, the Handyprobe HP3 can be operated as an oscilloscope, a multimeter, a spectrum analyzer and a Y-t recorder. The captured data can be viewed in many different ways, in a single graph or in multiple views, each displaying a different property of the measured signal.



Mathematical operations

Use the spectrum analyzer to see the frequency spectrum of your

communication buses with balanced signals, like e.g. CAN.

Mathematical operations like e.g. adding, subtracting, multiplying, dividing, integrating, differentiating etc. are available in the form of processing blocks. Besides the mathematical operations, there are also several processing blocks to perform other operations on the data, like determining minimum or maximum values, limiting to specified range, averaging, filtering, applying gain and offset, etc.

Combining these mathematical processing blocks gives unrivalled possibilities in constructing complex mathematical operations. The results of these operations can be displayed in one or more graphs, can be displayed in numeric displays and can be written to disk in various common formats.

Spectrum analyzer



Acquisition system	
Number of input channels	1 analog differential
Maximum sampling rate	100 MS/s (block mode)
	10 MS/s (streaming mode)
Accuracy	±0.01%
Memory	1 MiSamples

Input

Resolution 10 bits Amplitude accuracy ±0.3 % Ranges

Coupling Impedance Maximum input voltage (in all ranges)

Maximum Common Mode voltage

Common Mode Rejection Ratio Bandwidth

0.2 V .. 800 V full scale in a 2 - 4 - 8 sequence

AC/DC 2.1 MOhm // 15 pF 566 Vrms CAT II;

derated at 3 dB/decade above 20kHz to 25 Vpk-pk at 50 MHz

0.2 V .. 8 V range: 12 V 20 V .. 80 V range: 120 V 200 V .. 800 V range: 800 V

60 dB 50 MHz

Trigger system

Source Trigger kinds Pre trigger

CH1

rising slope, falling slope, inside window, outside window 0 - 1 MiSamples (0 - 100%, one sample resolution)

Power

Power source Input USB 400 mA max (2 W max)

System requirements

PC I/O connection

USB 2.0 High Speed (480 Mbit/s)

Operating System

USB 1.1 Full Speed (12 Mbit/sec) compatible Windows 98/ME/2000/XP/Vista32

Physical Dimension (h x w x I)

Weight

25 x 68 x 177 mm (1 x 2.7 x 6.9 inch) 290 gram (10.2 ounce)

Kit contents

Carrying case Instrument Test lead

Accessories

230 x 280 x 80 mm (9 x 11 x 3.1 inch) Handyprobe HP3

low noise, heat resisitant differential test lead with 4 mm

shrouded banana jacks with colored clips 2 test probes with 4 mm banana socket 2 crocodile clips with 4 mm banana socket

wrist strap

Software

For Windows 98/ME/2000/XP/Vista32 on CDROM Manuals Instrument manual and Quick Start Guide







