

Product Datasheet - Technical Specifications



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Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

Tel.: +49 - 81 41 - 52 71-0

FAX: +49 - 81 41 - 52 71-129

E-Mail: sales@meilhaus.com

Downloads:

www.meilhaus.com/en/infos/download.htm

Meilhaus Electronic GmbH | Am Sonnenlicht 2 82239 Alling/Germany

 Tel.
 +49 - 81 41 - 52 71-0

 Fax
 +49 - 81 41 - 52 71-129

 E-Mail
 sales@meilhaus.com

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PicoScope[®]



TECHNICAL SPECIFICATIONS OF THE PICOSCOPE 4225A AND 4425A DIAGNOSTIC OSCILLOSCOPES

PicoScope 4225A	PicoScope 4425A
2	4
12 bits (16 bits in enhanced resolution mode)	
±1% of full scale (2% on 50mV range)	
10 mV/div to 40 V/div	
±50 mV to ±200 V in 12 ranges	
1 MΩ in parallel with 24 pF	
Floating single-ended PicoBNC+ connector	
Software selectable AC/DC	
±250 V (DC + AC peak)	
250 M samples shared l	between active channels
Up to 10,000 waveforms	3
5 ns/div to 5000 s/div	
20 MHz (10 MHz on ±50) mV range)
400 MS/s 200 MS/s 100 MS/s	
Any input channel	
Auto, repeat, single, none	
Rising edge, falling edge, edge with hysteresis, pulse width, runt pulse, dropout, windowed, logic	
Up to 100% of capture length	
Up to 4 billion samples	
DC to 20 MHz	
Magnitude, peak hold, a	verage
- 3	
0 °C to 40 °C (15 °C to 3	0 °C for quoted accuracy)
-20 to +60°C	
	nsing
190 x 160 x 40 mm (apr	prox 7.5 x 6.3 x 1.6 in)
<900 g (approx 2 lb)	
LICE cable and Cafety Co	uido
· · · · · · · · · · · · · · · · · · ·	
FCC (EMC), CE (EMC and LVD), RoHS compliant 2 years	
	2 12 bits (16 bits in enhand ±1% of full scale (2% on 10 mV/div to 40 V/div ±50 mV to ±200 V in 12 1 MΩ in parallel with 24 Floating single-ended Pi Software selectable AC/ ±250 V (DC + AC peak) 250 M samples shared Up to 10,000 waveforms 5 ns/div to 5000 s/div 20 MHz (10 MHz on ±50 MHz on MS/s 100 MS

WHAT DOES IT ALL MEAN? The main specifications explained.

VERTICAL RESOLUTION



The number of dots in the waveform from top to bottom. "12 bits" means 4,096 dots, which is more detail than you can see on the screen all at once. PicoScope stores the extra detail for when you zoom in.

BUFFER MEMORY



The number of dots in the waveform from left to right. If you don't have enough memory then the waveform won't show all the detail in the signal. PicoScope has more than enough memory, so you can zoom in thousands of times and still see a clear display and spot intermittent glitches.

WAVEFORM BUFFER



A memory that collects your most recent waveforms. If a waveform disappears off the screen, you can look back through the waveform buffer to find it.

TRIGGER



This ensures that the scope captures the waveform at the right time and keeps it in a stable position on the screen. PicoScope can set up the trigger automatically, but if you want you can select special trigger modes to catch unusual waveforms that you might otherwise miss.

BANDWIDTH



For faster signals, more bandwidth gives a more faithful reproduction of the signal shape on the screen. PicoScope has enough bandwidth to display CAN bus and FlexRay signals accurately.

SAMPLING RATE



Like bandwidth, this is more important for fast signals. A high sampling rate ensures that you catch the high-frequency details of the signal.