

Virtual Instrumentation

NEW
PRODUCT
UPDATE

ADC-212 & ADC-216

Dual channel, precision PC-based oscilloscopes

FEATURES

- ▼ 12 or 16 bit resolution
- ▼ Supplied with oscilloscope and data logging software
- ▼ Large buffer memory
- ▼ Easy to use and install

The Pico ADC-212 and ADC-216 virtual instruments represent a quantum improvement in digital storage oscilloscope technology. While most digital scopes offer only 8 bit resolution (0.4%), these new virtual instruments offer impressive resolutions of 12 and 16 bits (250 and 15 parts per million).

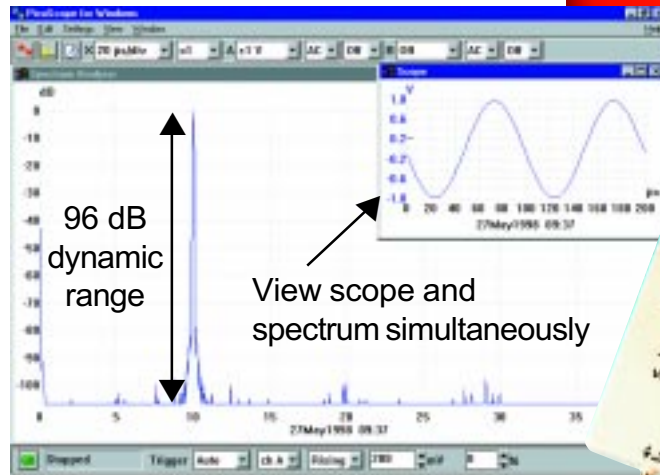
When used as a spectrum analyser, the ADC-212 has a useable dynamic range of over 80 dB, whilst the ADC-216 offers over 90 dB.

With an ADC-212 or 216 and the supplied PicoScope software, your PC becomes a high precision test instrument (oscilloscope, spectrum analyser and multimeter). Additionally, when used with the supplied PicoLog software, your PC becomes an advanced data logger and chart recorder. For users wishing to develop their own software, there are software drivers for DOS, Windows 3.1, 95/98 and NT and examples for Labview, Excel, Visual Basic, Delphi and C.

With its 32k buffer, the ADC-212/216 can collect large quantities of accurate data at high speed. The large memory means that oversampling can be used to reduce the effects of aliasing.

APPLICATIONS

- ▼ Audio testing and analysis
- ▼ Vibration and noise measurements
- ▼ Power supply design
- ▼ Mains harmonics testing
- ▼ Analog telephony



Specification

Scope timebase	20 μ s/div to 50 s/div
Spectrum ranges	
ADC-212	0 to 1.5 MHz, 80dB dynamic range
ADC-216	0 to 166 kHz, 96dB dynamic range
Max sample rate	
ADC-212	3 Msps (single channel) 1.5 Msps (dual channel)
ADC-216	333 ksps (single channel) 166 ksps (dual channel)
Analog bandwidth	
ADC-212	1.5 MHz
ADC-216	166 kHz
Buffer size	32 k
Voltage ranges	\pm 20 mV to \pm 20 V in 10 ranges
Resolution	
ADC-212	12 bit
ADC-216	16 bit
Channels	2 BNC, 1M Ω AC/DC 1 BNC external trigger
Accuracy	\pm 1%
PC connection	D25 to PC parallel port (cable supplied)
Power supply	500 mA @ 12V (mains adaptor supplied)
EMC	All products comply with current CE standards
Warranty	2 years



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