

PicoLog<sup>®</sup>

# 1000 Series

Multi-channel Voltage Data Loggers

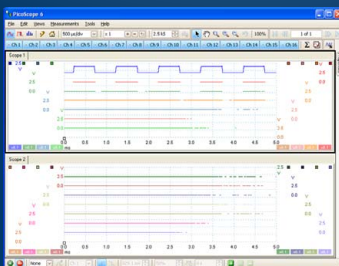


- Up to 16 unipolar analog input channels
- Up to 12-bit resolution with 0.5% accuracy
- Up to 4 software configurable digital output lines
- Up to 1 MS/s sample rate
- USB connected and powered
- Includes API and examples for C/C++/C#, VB, LabVIEW VIs
- Complete with ready-to-go data logging software



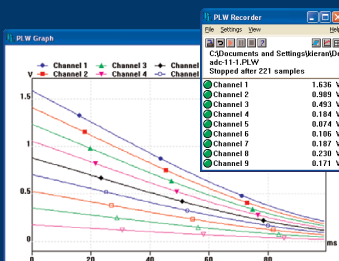
## All you need

Designed to meet the needs of a wide range of general-purpose voltage, sensor and transducer logging applications. The PicoLog 1216 and 1012 feature independent software-configurable channels, ranges, scaling and control outputs, an optional external terminal board for easy range extension and ease of terminating wires.



## Ready-to-go

The PicoLog 1000 Series multi-channel voltage data loggers include everything needed for immediate use and are complemented by a full suite of software including the PicoLog data logging package, the PicoScope oscilloscope package and an SDK for writing user programs.



## Flexible sampling modes

Both loggers feature 3 sampling modes to meet most data logging needs: streaming, real-time continuous and block mode. Streaming allows channel voltage readings to be logged continuously at 1 kS/s on any number of channels, while real-time continuous provides averaged, time-accurate readings with automatic measurements available in PicoLog. Block mode captures at the full 1 MS/s sample rate of the logger for the duration of the 8k sample buffer.

		PicoLog 1216	PicoLog 1012
<b>Inputs</b>	Analog inputs	16 channels	12 channels
	Resolution (bits)	12 bits	10 bits
	Sampling rate – streaming	1 kS/s per channel in PicoLog, 100 kS/s using API	
	Sampling rate - block mode	1 MS/s using PicoScope and API	
	Sampling rate – real-time continuous	1 kS/s or greater	
	Buffer memory	8k samples shared by all channels	
	Input type	Single-ended, unipolar	
	Voltage range	0 - 2.5 V	
	Accuracy	0.5% @ 12 bits	1.0% @ 10 bits
	Overload protection	±30 V	
	AC/DC coupling	DC coupling	
	Input impedance	1MΩ fixed – buffered inputs	
	<b>Outputs</b>	Digital outputs	4 digital outputs
Output power for sensors		2.5 V @ 10 mA. Current-limited	
Other outputs		PWM output (PicoScope 6 and API)	None
<b>Physical and general</b>	Power requirements	Powered from USB port, <200 mA operating, <100 mA on startup	
	PC connectivity	USB 2.0 full speed	
	Input/output connector	25-way D Type, female (pin-compatible with USB ADC-11)	
	Dimensions	45 mm x 100 mm x 140 mm (1.77" x 3.94" x 5.51")	
	Weight	<200 g (7.05 oz)	
	Compliance	CE (EMC) Class A emissions & immunity. FCC emissions	
<b>Software</b>	Compatibility	Windows XP (SP2 or greater) and Vista (32 and 64 bit)	
<b>- PicoLog</b>	Multiple views	View data as a graph, spreadsheet or text	
	Parameter scaling	Convert raw data into standard engineering units	
	Math functions	Use mathematical equations to calculate additional parameters	
	Alarm limits	Program an alert if a parameter goes out of a specified range	
<b>- PicoScope 6</b>	Capture modes	Oscilloscope, spectrum and persistence modes	
	Channel maths	Calculate the sum, difference, product, inverse or create your own custom function using standard arithmetic, exponential and trigonometric functions	
<b>- Development kit</b>	Automated measurements	15 scope measurements and 11 spectrum measurements	
	Driver and examples	C/C++/C#, Visual Basic and LabVIEW	
	Compatibility mode	Drop-in replacement of USB ADC-11	



Contact Pico Technology or your distributor for up-to-date US dollar and euro prices. Errors and omissions excepted.

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