

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



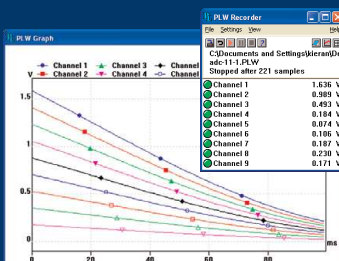
## All you need

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	2 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	
	Automated measurements	15 scope measurements and 11 spectrum measurements	
<b>- Development kit</b>	Driver and examples	C/C++/C#, Visual Basic and LabVIEW	
	Compatibility mode	Drop-in replacement of USB ADC-11	

**ORDER CODES and PRICES**

ORDER CODE	DESCRIPTION	PRICE
PP547	PicoLog 1216 with terminal board	£159
PP544	PicoLog 1216	£149
PP546	PicoLog 1012 with terminal board	£105
PP543	PicoLog 1012	£95
PP545	Terminal board only	£15

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

**PicoScope**, **PicoLog** and **Pico Technology** are trademarks of Pico Technology. **Windows XP** and **Vista** are trademarks of Microsoft Corporation.

