**pico** ®
Technology

# PicoLog®
# 1000 Series

## Multi-channel data acquisition

**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**
**Complete with ready-to-go data logging software**
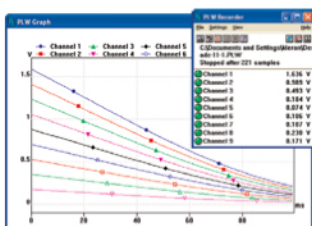**Includes API and examples for C, Excel (VBA), LabVIEW**

### 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. Supplied complete with a terminal board that allows 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 a software development kit (SDK) for writing user programs.

### Flexible sampling modes

Both loggers feature three 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 into available memory.

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|  | PicoLog 1216 | PicoLog 1012 |
|---|---|---|
| **INPUTS** | | |
| 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 | |
| Capture size | 8128 sample internal buffer shared by all channels<br>1 million sample limit using SDK (dependent on sampling rate) | |
| 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 | |
| **OUTPUTS** | | |
| 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 |
| **GENERAL** | | |
| PC connectivity | USB 2.0 full speed | |
| Power requirements | Powered from USB port, < 200 mA operating, < 100 mA on startup | |
| 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) | |
| Temperature range | Operating: 0 °C to 70 °C (20 °C to 50 °C for stated accuracy) | |
| Humidity range | Operating: 5 % to 85 % RH non-condensing | |
| Compliance | CE (EMC) Class A emissions & immunity. FCC emissions | |
| PC requirements | Windows 7, Windows 8 or Windows 10, 32 or 64 bit | |
| **- PicoLog FEATURES** | | |
| 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 | |
| **- PicoScope 6 FEATURES** | | |
| 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 | |
| **DEVELOPMENT KIT** | | |
| SDK | Supports all C-compatible languages. Example code provided in C, Visual Basic for Applications (Microsoft Excel) and National Instruments LabVIEW | |
| Compatibility mode | Drop-in replacement of USB ADC-11 | |

# Ordering information

| ORDER CODE | DESCRIPTION | USD* | EUR* | GBP* |
|---|---|---|---|---|
| PP547 | PicoLog 1216 with terminal board | 259 | 219 | 185 |
| PP546 | PicoLog 1012 with terminal board | 179 | 149 | 129 |
| PP545 | Terminal board only | 25 | 21 | 18 |

* Prices are correct at the time of publication. Sales taxes not included.
Please contact Pico Technology for the latest prices before ordering.

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