

U-LINK

Single channel, PC-based universal power and energy monitor



KEY FEATURES

> THE UNIVERSAL PC-BASED METER

Reads ALL Heads:

- Power: Thermopiles, Photodetectors and Pyroelectrics
- Energy: Thermopiles (in single shot mode), Photodetectors and Pyroelectrics

> MEASURE fJ ENERGY LEVELS

Thanks to a unique digital method for suppressing the noise on the lower ranges

> EXTERNAL TRIGGER

Synchronize your U-LINK to your pulsed laser or digital chopper

> SYNCHRONIZE MULTIPLE CHANNELS

With the "SYNC. OUT" port, you can plug multiple U-LINK devices together and create a low-cost multi-channel system.

> SERIAL COMMANDS

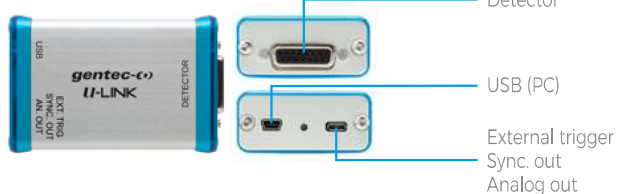
Serial commands are available on both versions to let you take full control

> REAL-TIME STATISTICAL FUNCTIONS

Max, Min, Average, Standard Deviation, RMS and PTP Stability.

CONNECTIVITY

U-LINK (USB)



U-LINK (RS-232)



ACCESSORIES



USB, RS-232,
external trigger & analog out
cables



Pelican carrying case



Additional 9V power supply
(RS-232 version only)



	U-LINK (USB)	U-LINK (RS-232)
DETECTOR TYPES	ALL MODELS: thermopiles, pyroelectrics, photodetectors	ALL MODELS: thermopiles, pyroelectrics, photodetectors
DISPLAY	1-Channel / PC-based	1-Channel / PC-based
POWER METER SPECIFICATIONS		
Power range	4pW to 30kW	4 pW to 30 kW
Resolution (digital)	23 bits on current scale	23 bits on current scale
Monitor accuracy	$\pm 0.5\% \pm 3 \mu V$	$\pm 0.5\% \pm 3 \mu V$
Statistics	Current value, max, min, average, std dev., RMS & PTP stability, time	Current value, max, min, average, std dev., RMS & PTP stability, time
ENERGY METER SPECIFICATIONS		
Energy range	2 fJ to 30 kJ	2 fJ to 30 kJ
Resolution (digital)	Current scale/3754	Current scale/3754
Monitor accuracy	$1\% \pm 50 \mu V (< 500 \text{ Hz}) / 2\% \pm 50 \mu V (500 \text{ Hz} - 10 \text{ kHz})$	$1\% \pm 50 \mu V (< 500 \text{ Hz}) / 2\% \pm 50 \mu V (500 \text{ Hz} - 10 \text{ kHz})$
Software trigger level	0.1 to 99.9%, 0.1% resolution, default 2%	0.1 to 99.9%, 0.1% resolution, default 2%
Repetition rate^a	10 kHz	10 kHz
Real-time data transfer	10 kHz with time stamp, no missing point	10 kHz with time stamp, no missing point
Statistics	Current value, max, min, average, std dev. RMS & PTP stability, pulse#, repetition rate, average power	Current value, max, min, average, std dev. RMS & PTP stability, pulse#, repetition rate, average power
DETECTOR COMPATIBILITY		
Thermopile	Average power & single shot energy	Average power & single shot energy
Pyroelectric	Pulse energy & average power	Pulse energy & average power
Photodetectors	Average power & pulse energy	Average power & pulse energy
GENERAL SPECIFICATIONS		
Digital display	Computer screen	Computer screen
Data display	With PC-Gentec-EO: real-time, scope, averaging, statistics and digital tuning needle	With PC-Gentec-EO: real-time, scope, averaging, statistics and digital tuning needle
Serial commands and data transfer via	USB	RS-232
Real-time data transfer rate^a	Up to 10 kHz with time stamp, no missing point (for pyroelectrics only)	Up to 10 kHz with time stamp, no missing point (for pyroelectrics only)
Analog output	0 - 2 V, full scale, $\pm 1\%$ user-defined	0 - 2 V, full scale, $\pm 1\%$ user-defined
External trigger	3.3 to 12 V	3.3 to 12 V
Dimensions	57W x 26H x 910 mm	57W x 26H x 910 mm
Weight	0.12kg	0.12kg
ORDERING INFORMATION		
Product page		

a Maximum repetition rate and data transfer rate may vary with PC and detector speeds.