

# U-LINK

Single Channel, PC-Based Universal Power and Energy Monitor



## KEY FEATURES

- 1. THE UNIVERSAL PC-BASED METER**  
Reads ALL Heads:
  - Power: thermopiles, photodetectors and pyroelectrics
  - Energy: thermopiles (in single shot mode), photodetectors and pyroelectrics
- 2. MEASURE fJ ENERGY LEVELS**  
Thanks to a unique digital method for suppressing the noise on the lower ranges
- 3. EXTERNAL TRIGGER**  
Synchronize your U-LINK to your pulsed laser or digital chopper
- 4. SYNCHRONIZE MULTIPLE CHANNELS**  
With the "SYNC. OUT" port, you can plug multiple U-LINK devices together and create a low-cost multi-channel system.
- 5. SERIAL COMMANDS**  
Serial commands are available on both versions to let you take full control

## AVAILABLE MODELS



U-LINK (USB)



U-LINK (RS-232)



## OUTPUT OPTIONS

- 1. USB OR RS-232 PORT**
  - Connects directly to a PC or PLC
  - Control your U-LINK with serial commands or with the PC-Gentec-EO software
  - USB available for the U-LINK (USB) model; RS-232 available with the U-LINK (RS-232) model
- 2. ANALOG OUTPUT**
  - Monitor your detector's amplified and anticipated signal with an external equipment such as a chart recorder, a voltmeter, etc.
  - The output signal is a DC voltage
  - Available for all U-LINK models
- 3. SYNCH. OUTPUT**
  - Synchronize the acquisition of energy measurement between multiple U-LINK units
  - Available for the U-LINK (USB) model only

## ACCESSORIES



USB Cable  
(Model Number: 202372)



RS-232 Cable  
(Model Number: 201860)



Pelican Carrying Case



Additional 9V Power Supply  
(RS-232 version only)

## U-LINK



\*Also traceable to NRC-CNRC

## SPECIFICATIONS

	U-LINK (USB)	U-LINK (RS-232)
<b>DETECTOR TYPES</b>	ALL MODELS: Thermopiles, Pyroelectrics, Photodetectors	ALL MODELS: Thermopiles, Pyroelectrics, Photodetectors
<b>DISPLAY</b>	1-Channel / PC-Based	1-Channel / PC-Based
<b>POWER METER SPECIFICATIONS</b>		
Power Range	4 pW to 30 kW	4 pW to 30 kW
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
<b>ENERGY METER SPECIFICATIONS</b>		
Energy Range	2 fJ to 30 kJ	2 fJ to 30 kJ
Monitor Accuracy	1 % $\pm 50 \mu V$ (<500 Hz) 2 % $\pm 50 \mu V$ (500 Hz - 10 kHz)	1 % $\pm 50 \mu V$ (<500 Hz) 2 % $\pm 50 \mu V$ (500 Hz - 10 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 <sup>a</sup>	10 kHz	10 kHz
Real Time Data Transfer	10 kHz maximum	1 kHz maximum
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
<b>DETECTOR COMPATIBILITY</b>		
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
<b>GENERAL SPECIFICATIONS</b>		
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 Mini-B	RS-232
Analog Output	0-2 Volts, Full Scale, $\pm 1\%$ , user-defined	0-2 Volts, Full Scale, $\pm 1\%$ , user-defined
External Trigger	3.3 to 12 V	N/A
Dimensions	57W x 26H x 91D mm	57W x 26H x 91D mm
Weight	0.12 kg	0.12 kg
<b>ORDERING INFORMATION</b>		
Product Name	U-LINK (USB)	U-LINK (RS-232)
Product Number	203510	203994

Specifications are subject to change without notice

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