PRESENTATION

OVERVIEW OF THE DIFFERENT MODELS

The Gentec-EO monitors come is various sizes and types to cover all applications. We have monitors with or without display (PC-based) and for power or energy readings, or both. We also offer the fastest digital needle display on the market.



MAESTRO

The MAESTRO Power & Energy Meter is our top of the line display monitor with an extra-large 5.6in color LCD display and fully touch screen controls. With its unique user interface and faster electronics, it will do more, in less time, and with less effort than any other meter on the market!







See page 20



TUNER

This Power Meter presents both a large LCD display and an ultrafast needle, up to 10X faster than anything else on the market. It comes with more features than the competition, like min and max holds for both displays, comet tail needle and bar graph function. The TUNER comes in Gentec-EO's ergonomic design, with a large LCD display and easy to use direct access keys.

ULTRA-FAST TUNING NEEDLE

See page 24



UNO

The UNO is a simple Power Meter, with large contrast fields and direct access buttons. Its extremely low power consumption allows it to work on standard alkaline batteries, making it the monitor of choice for service technicians working in the field. With the lowest price for a display meter, the UNO is the perfect choice when looking for a reliable, entry-level power meter.

■ ECONOMICAL POWER METER

See page 26



S-LINK, P-LINK & M-LINK

The S-LINK, P-LINK and M-LINK are PC-Based Power or Energy monitors that come with unique software applications. The S-LINK comes with 1 or 2 channels and measures energy detectors at a very fast rate. It comes with a USB interface, Ethernet being available in option. The P-LINK is a small power meter, available with either a USB or RS-232 interface. A 4-Channel version is also available. As for the M-LINK, it is a Universal Power & Energy Meter that measures ALL the detectors in our product range and features a unique noise suppression method.

PC-BASED POWER OR ENERGY METERS

See page 28, 30 and 32

COMPARISON TABLE





integra ALL-IN-ONE DETECTOR + METER

The INTEGRA is a meterless line of All-in-One detectors that combine a detector and a meter in one convenient product. The small but powerful meter of the INTEGRA Series presents a direct USB connection so you can plug it into your PC. Simply use the PC-Gentec-EO software supplied with your product! Available on all our most popular products, with either a USB or RS-232 interface and with or without External Trigger.

Watch out for the INTEGRA logo to identify the products available with INTEGRA.





WIRELESS LASER POWER METER

This new line of All-in-One detectors combine a detector and a meter with Bluetooth connectivity in one convenient product. The small but powerful meter of the BLU Series presents a Bluetooth connection so you can display the results on your mobile device with the Gentec-EO BLU app available for both iOS and Android systems. Need to use it with a PC? Simply plug in the included Bluetooth receptor and be ready to make power or energy measurements within seconds!

Watch out for the BLU logo to identify the products available with BLU.

COMPARISON **TABLE**



See page 38















| | MAESTRO | TUNER | UNO | S-LINK | P-LINK | M-LINK | INTEGRA | BLU BLU |
|-------------------------------------|----------------------------|---------------------------------|---------------------------|----------------|----------|--------|----------|--------------------------------|
| DETECTOR COMPATIBILITY | | | | | | | | |
| Power (Thermopiles) | • | • | • | • | • | • | • | Some exception apply, see p.63 |
| Power (Pyroelectrics -B) | • | | | | | • | | |
| Power (Photo Detector) | • | • | • | | • | • | • | |
| Power (Photo Detector -B) | • | | | • | | • | | |
| Power (THZ-D Detector) | • | | | | | • | | |
| Energy (All Pyroelectrics) | • | | | • | | • | • | |
| Energy (Thermopiles in Single Shot) | • | | | • | • | • | • | |
| Energy (Photo Detector -B) | • | | | • | | • | • | |
| DISPLAY | 5.6in LCD Touch Screen | 3.8in LCD With Tuning Needle | 3.8in LCD 32 mm Digits | None | None | None | None | None |
| PC INTERFACE | • | | | • | • | • | • | • |
| OUTPUTS | | | | | | | | |
| USB | • | | | • | Standard | • | • | |
| USB Key Port | • | | | | | | | |
| RS-232 | • | | | Optional | Optional | | Optional | |
| Analog Output | • | • | | | • | • | | |
| Ethernet | • | | | Optional | | | | |
| Bluetooth | | | | | | | | • |
| EXTERNAL TRIGGER | • | | | • | | • | Optional | |
| FULL STATISTICAL FUNCTIONS | • | | | • | • | • | • | • |
| MAX REPETITION RATE | 2 kHz (10 kHz sampling) | | | 10 kHz/Channel | | 1 kHz | 6 kHz | 6.8 Hz |
| NUMBER OF CHANNELS | 1 | 1 | 1 | 1 or 2 | 1 | 1 | 1 | 1 |
| | | | | | | | | |

THZ DETECTORS

S-LINK

Dual & Single Channel, PC-Based Power and Energy Monitor



KEY FEATURES

1. READS BOTH POWER AND ENERGY

Thermopiles and pyroelectrics

2. AVAILABLE WITH 1 OR 2 CHANNELS

S-LINK-1 and S-LINK-2 models now available

3. PC-BASED

Connects to your PC with included software

4. SERIAL COMMANDS

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

5. FASTEST DATA TRANSFER RATE

Get all the points transferred directly into your PC at 10 kHz/Channel

6. USB OR ETHERNET

Choose your favourite communications port. The USB version is port-powered

7. EXTERNAL TRIGGER

Every model comes standard with a 2.4 V to 24 V external trigger

AVAILABLE MODELS



ACCESSORIES



Additional 9V Power Supply (Model Number: 200960)



USB Cable (Model Number: 202373)



Protective Pouch (Model Number: 200128)

SEE ALSO

| ENERGY DETECTORS | 40 |
|-------------------------|-----|
| POWER DETECTORS | 66 |
| HIGH POWER DETECTORS | 102 |
| THZ DETECTORS | 132 |
| OEM DETECTORS | 148 |
| LIST OF ALL ACCESSORIES | 194 |



S-LINK



SPECIFICATIONS

| Response Time Time Time ENERGY METER SPECIFICATIONS Energy Range 8 fJ to 20 kJ 8 fJ to 20 kJ Resolution (Digital) Normal Mode: Current scale/4096 Normal Mode: Current scale/4096 Monitor Accuracy 1 % 1 % ≤500 to 1 200 Hz (MB) 2 % 2 % 1 200 to 6 200 Hz (MB) 3 % 3 % 6 000 to 1 200 Hz (MB) 6 % 6 % Real Time Data Transfer 10 kHz in normal mode, no missing point 10 kHz/Channel in normal mode, no missing point Statistics 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 & Single Shot Energy Pulse Energy GENERAL SPECIFICATIONS 2 Number of Channels 1 2 Digital Display Computer Screen Computer Screen Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram | | S-LINK-1 | | S-LINK-2 | | | |
|--|---|---|--|---|----------------------------------|--|--|
| POWER METER SPECIFICATIONS Power Parnge | DETECTOR TYPES | Thermopiles, Pyroelectrics | 3 | | | | |
| Power Range | CHANNELS / DISPLAY | 1-Channel / PC-Based | | 2-Channels / PC-Based | | | |
| Monitor Accuracy | POWER METER SPECIFICATIONS | | | | | | |
| Reaponse Time 1 sec Set Dev., RMS & PTP Stability, Time Ti | Power Range | 1 μW to 10 kW | | 1 μW to 10 kW | | | |
| Time | Monitor Accuracy | ±0.75 % for 10 % to full so | cale | ±0.75 % for 10 % to full scale | | | |
| Energy Marge | Statistics | | Average, Std Dev., RMS & PTP Stability, | Current Value, Max, Min, Average, Std Dev., RMS & PTP Stability, Time | | | |
| Resolution (Digital) Normal Mode: Current scale/4096 Normal Mode: Current scale/4096 | Response Time | 1 sec | | 1 sec | | | |
| Resolution (Digital) Normal Mode: Current scale/4096 Normal Mode: Current scale/4096 Monitor Accuracy <s00 %="" (az)="" (bb)="" (bc)="" (bc<="" (channel="" (for="" (mb)="" (mb),="" (option)="" (statedard)="" *="" 000="" 1="" 10="" 2="" 200="" 3d="" 500="" 6="" 86="" <1200="" and="" commands="" computer="" data="" digital="" display="" ethernet="" histogram="" histogram,="" hz="" in="" khz="" line="" missing="" mode,="" nate="" no="" normal="" or="" plot,="" point="" pulse)="" pyroelectric="" rate="" ratio,="" real="" screen="" serial="" statistics="" td="" time="" time,="" to="" transfer="" =""><td>ENERGY METER SPECIFICATIONS</td><td></td><td></td><td></td><td></td></s00> | ENERGY METER SPECIFICATIONS | | | | | | |
| Monitor Accuracy - 500 Hz (ME), < 1200 Hz (ME), < 1 % - 500 to 1 200 Hz (ME), < 2 % - 1 200 to 6 000 Hz (ME), < 2 % - 1 200 to 6 000 Hz (ME), < 3 % - 6 000 to 10 000 Hz (ME), < 6 % - Real Time Data Transfer - 10 kHz in normal mode, no missing point - Statistics - Current Value, Max, Min, Average, Std Dev., RMS & PTP Stability, Pulse ≠, Repetition Rate, Average Power - DETECTOR COMPATIBILITY - Thermopile - Average Power & Single Shot Energy - Pulse Energy - Pulse Energy - Pulse Energy - Pulse Energy - Pulse Energy - Pulse Energy - Pulse Energy - Computer Screen - Data Display - Computer Screen - Data Display - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram - Real | Energy Range | 8 fJ to 20 kJ | | 8 fJ to 20 kJ | 8 fJ to 20 kJ | | |
| Sou Hz [MB], <1200 Hz [MB]) 1 % 1 % 2 % 2 % 2 % 2 % 2 % 1 200 to 6 2000 Hz [MB]) 3 % 3 % 6 6000 to 10 0000 Hz [MB]) 6 % 6 | Resolution (Digital) | Normal Mode: Current sca | ale/4096 | Normal Mode: Current scale/4096 | | | |
| 1 200 to 6 000 Hz (MB) 1 200 to 6 000 Hz (MF) 3 % 6 000 to 10 000 Hz (MF) 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6 M Real Time Data Transfer 10 kHz in normal mode, no missing point 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, no missing point (for pyroelectrics) 10 kHz/Channel in normal mode, | Monitor Accuracy | | | | | | |
| 1 200 to 6 000 Hz (MT) 6 000 to 10 000 Hz (MT) 6 000 | <500 Hz (MB), <1200 Hz (MT) | 1 % | | 1 % | | | |
| 6 000 to 10 000 Hz km) 6 % 6 % 6 % 6 % 6 % 10 kHz in normal mode, no missing point 10 kHz/Channel in normal mode, no missing point 2 tatistics 2 Current Value, Max, Min, Average, Std Dev., RMS & PTP Stability, Pulse #, Repetition Rate, Average Power Power Power Power Power Power Power Power Power Single Shot Energy Pulse Energy | 500 to 1 200 Hz (MB) | 2 % | | 2 % | | | |
| Real Time Data Transfer 10 kHz in normal mode, no missing point 10 kHz/Channel in normal mode, no missing point Statistics 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 Pulse Energy Pulse Energy Pulse Energy GENERAL SPECIFICATIONS Number of Channels 1 2 Digital Display Computer Screen Computer Screen Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Data Transfer Nia USB (standard) or Ethernet (option) a Neal Transfer Rate 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b Single Edge External Trigger 3-24 V @ 13 mA, optically isolated 3-24 | 1 200 to 6 000 Hz (MT) | 3 % | | 3 % | | | |
| Statistics 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 Pulse Energy Pulse Energy Pulse Energy GENERAL SPECIFICATIONS Number of Channels 1 2 Digital Display Computer Screen Computer Screen Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Serial Commands and Data Transfer Via USB (standard) or Ethernet (option) a USB (sta | 6 000 to 10 000 Hz (MT) | 6 % | | 6 % | | | |
| DETECTOR COMPATIBILITY Thermopile Average Power & Single Shot Energy Proceductric Average Power & Single Shot Energy Pulse Energy Pyroelectric Pulse Energy GENERAL SPECIFICATIONS Number of Channels 1 Digital Display Computer Screen Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Serial Commands and Data Transfer Via USB (standard) or Ethernet (option) and USB (standard) or Ethernet (opt | Real Time Data Transfer | 10 kHz in normal mode, no | missing point | 10 kHz/Channel in normal mode | e, no missing point | | |
| Thermopile Average Power & Single Shot Energy Pulse Energy Pulse Energy Pulse Energy GENERAL SPECIFICATIONS Number of Channels 1 Digital Display Computer Screen Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Serial Commands and Data Transfer Via USB (standard) or Ethernet (option) a USB (standard) or Ethernet (option) a USB (standard) or Ethernet (option) b USB (standard) or Ethernet (option) a USB (standard | Statistics | Current Value, Max, Min, | Average, Std Dev., RMS & PTP Stability, Po | ulse #, Repetition Rate, Average P | ower | | |
| Pyroelectric Pulse Energy Pulse Energy GENERAL SPECIFICATIONS Number of Channels 1 Digital Display Computer Screen Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time Data Transfer Via USB (standard) or Ethernet (option) Real Time Data Transfer Rate 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) Rising Edge External Trigger 3-24 V @ 13 mA, optically isolated 3-24 V @ 13 mA, optically isolated Dimensions 106W x 34H x 147D mm 106W x 34H x 147D mm Weight 0.424 kg 0.424 kg Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A 100/240 VAC 50-60 Hz to 9 VDC 1.66 A Product Name S-LINK-1 S-LINK-1 (Ethernet) S-LINK-2 (Ethernet) S-LINK-3 (Ethernet) S-LINK-4 (Ethernet) S-LINK-4 (Ethernet) S-LINK-4 (Ethernet) S-LINK-5 (Ethernet) S-LINK-6 (S-LINK-6 (S-LINK-6) (S-LINK-6 | DETECTOR COMPATIBILITY | | | | | | |
| Number of Channels 1 2 Digital Display Computer Screen Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Serial Commands and Data Transfer Via USB (standard) or Ethernet (option) a Real Time Data Transfer Rate 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b Rising Edge External Trigger 3-24 V @ 13 mA, optically isolated Dimensions 106W x 34H x 147D mm 106W x 34H x 147D mm Weight 0.424 kg Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A Product Name S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 (Ethernet) a S-LINK-2 (Ethernet) a | Thermopile | Average Power & Single S | Shot Energy | Average Power & Single Shot E | nergy | | |
| Number of Channels 1 2 Digital Display Computer Screen Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Serial Commands and Data Transfer Via USB (standard) or Ethernet (option) a Real Time Data Transfer Rate 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b Rising Edge External Trigger 3-24 V @ 13 mA, optically isolated 3-24 V @ 13 mA, optically isolated Dimensions 106W x 34H x 147D mm 106W x 34H x 147D mm Weight 0.424 kg Ext. Power Supply (Ethemet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A ORDERING INFORMATION 1 channel 1 channel 1 channel 2 channels 5-LINK-1 (Ethernet) a 5-LINK-2 (Ethernet) a | Pyroelectric | Pulse Energy | | Pulse Energy | | | |
| Digital Display Computer Screen Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram, Statistics and 3D Histogram Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram, Statistics and Statis | GENERAL SPECIFICATIONS | | | | | | |
| Data Display Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram Serial Commands and Data Transfer Via USB (standard) or Ethernet (option) a Real Time Data Transfer Rate 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b Rising Edge External Trigger 3-24 V @ 13 mA, optically isolated Dimensions 106W x 34H x 147D mm 106W x 34H x 147D mm Weight 0.424 kg Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A ORDERING INFORMATION 1 channel 1 channel S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 S-LINK-2 (Ethernet) a | Number of Channels | 1 | | 2 | | | |
| Serial Commands and Data Transfer Via USB (standard) or Ethernet (option) a USB (standard) or Ethernet (option) a USB (standard) or Ethernet (option) a Real Time Data Transfer Rate 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b 10 kHz/Channel in normal mode, no missing point (for pyroelectric | Digital Display | Computer Screen | | Computer Screen | | | |
| Real Time Data Transfer Rate 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) b Rising Edge External Trigger 3-24 V @ 13 mA, optically isolated 3-24 V @ 13 mA, optically isolated 3-24 V @ 13 mA, optically isolated Dimensions 106W x 34H x 147D mm 106W x 34H x 147D mm Weight Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A 0RDERING INFORMATION 1 channel 1 channel 2 channels Product Name S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 (Ethernet) a | Data Display | Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram | | Real Time, Ratio, Line Plot, Histogram, Statistics and 3D Histogram | | | |
| only) b only) b Rising Edge External Trigger 3-24 V @ 13 mA, optically isolated 3-24 V @ 13 mA, optically isolated Dimensions 106W x 34H x 147D mm 106W x 34H x 147D mm Weight 0.424 kg 0.424 kg Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A 100/240 VAC 50-60 Hz to 9 VDC 1.66 A ORDERING INFORMATION 1 channel 2 channels 2 channels Product Name S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 S-LINK-2 (Ethernet) a | Serial Commands and Data Transfer Via | USB (standard) or Ethernet (option) ^a | | USB (standard) or Ethernet (option) ^a | | | |
| Dimensions 106W x 34H x 147D mm 106W x 34H x 147D mm Weight 0.424 kg 0.424 kg Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A 100/240 VAC 50-60 Hz to 9 VDC 1.66 A ORDERING INFORMATION 1 channel 2 channels 2 channels Product Name S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 S-LINK-2 (Ethernet) a | Real Time Data Transfer Rate | , | | 10 kHz/Channel in normal mode, no missing point (for pyroelectrics only) $^{\rm b}$ | | | |
| Weight 0.424 kg 0.424 kg Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A 100/240 VAC 50-60 Hz to 9 VDC 1.66 A ORDERING INFORMATION 1 channel 1 channel 2 channels Product Name S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 S-LINK-2 (Ethernet) a | Rising Edge External Trigger | 3-24 V @ 13 mA, optically isolated | | 3-24 V @ 13 mA, optically isolated | | | |
| Ext. Power Supply (Ethernet version only) 100/240 VAC 50-60 Hz to 9 VDC 1.66 A 100/240 VAC 50-60 Hz to 9 VDC 1.66 A ORDERING INFORMATION 1 channel 1 channel 2 channels Product Name S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 S-LINK-2 (Ethernet) a | Dimensions | · | | 106W x 34H x 147D mm | | | |
| ORDERING INFORMATION 1 channel 1 channel 2 channels Product Name S-LINK-1 S-LINK-1 (Ethernet) a S-LINK-2 S-LINK-2 (Ethernet) a | Weight | 0.424 kg | | 0.424 kg | | | |
| Product Name S-LINK-1 S-LINK-1 (Ethernet) ^a S-LINK-2 S-LINK-2 (Ethernet) ^a | Ext. Power Supply (Ethernet version only) | 100/240 VAC 50-60 Hz to 9 VDC 1.66 A | | 100/240 VAC 50-60 Hz to 9 VDC 1.66 A | | | |
| | ORDERING INFORMATION | 1 channel | 1 channel | 2 channels | 2 channels | | |
| Product Number 202225 202226 201030 201170 | Product Name | S-LINK-1 | S-LINK-1 (Ethernet) ^a | S-LINK-2 | S-LINK-2 (Ethernet) ^a | | |
| | Product Number | 202225 | 202226 | 201030 | 201170 | | |

Specifications are subject to change without notice

a. The Ethernet version also includes the USB output.

b. Actual rate may depend on the computer.

OEM DETECTORS

P-LINK

1 and 4 Channels, PC-Based Power Monitors



KEY FEATURES

1. READS ALL POWER DETECTORS TYPES

Thermopiles and photo detectors of the PH Series

2. PC-BASED

Connects to your PC with included software

3. MULTI-CHANNEL CAPABILITIES

Available with 1 or 4 channels

4. SERIAL COMMANDS

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

5. REAL-TIME STATISTICAL FUNCTIONS

Max, Min, Average, Standard Deviation, RMS and PTP Stability. Also High Low Alarm and Post-Analysis Mode (P-LINK-4 only)

6. USB, RS-232 OR ETHERNET

Choose your favourite communications port. The USB version is port-powered. Ethernet available only on 4-Channel version

AVAILABLE MODELS











P-LINK (RS-232)

P-LINK-4

ACCESSORIES



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



USB & RS-232 Cables



Protective Pouch (Model Number: 200128)

SEE ALSO

| POWER DETECTORS | 66 |
|-------------------------|-----|
| HIGH POWER DETECTORS | 102 |
| PHOTO DETECTORS | 116 |
| THZ DETECTORS | 132 |
| OEM DETECTORS | 148 |
| LIST OF ALL ACCESSORIES | 194 |

Watch the Quick-Start video available on our website at www.gentec-eo.com



P-LINK



SPECIFICATIONS

| | ·LINK | P-LINK-4 |
|---------------------------|----------------------------|------------------------------|
| DETECTOR TYPES The | ermopiles, Photo Detectors | Thermopiles, Photo Detectors |
| CHANNELS / DISPLAY 1-CI | Channel / PC-Based | 4-Channel / PC-Based |

| POWER METER SPECIFICATIONS | | |
|---|---|---|
| Power Range | | |
| Thermopile | 3 μW to 10 kW | 3 μW to 30 kW |
| Photo Detector | 1 nW to 3 W | 1 pW to 3 W |
| Monitor Accuracy | ±0.5 % full scale | ±0.5 % full scale |
| Statistics | ^a Current Value, Max, Min, Average, Std Dev., RMS & PTP Stability, Time | ^b Current Value, Max, Min, Average, Std Dev., RMS & PTP Stability, Time |
| Response Time | 1 sec | 1 sec |
| DETECTOR COMPATIBILITY | | |
| Thermopile | Average Power & Single Shot Energy | Average Power |
| Photo Detector | Average Power (mW, dBm) | Average Power (mW) |
| GENERAL SPECIFICATIONS | | |
| Number of Channels | 1 | 4 |
| Digital Display | Computer Screen | Computer Screen |
| Data Display | ^a Real Time, Histogram, Statistics, Digital Tuning Needle | ^b Real Time, Graphic, Statistics, High/Low Alarm, Post-Analysis Mode, Multi-Channel |
| Analog Output | 0 - 2 Volt, Adjustable, Full Scale, ±1 % | N/A |
| Serial Commands and Data Transfer Via | USB (standard) or RS-232 (option) | USB (standard) or Ethernet (option) |
| Real Time Data Transfer Rate | 10 Hz | 10 Hz |
| Dimensions | 57W x 26H x 91D mm | 286W x 233H x 43D mm |
| Weight | 0.12 kg | 2.5 kg |
| External Power Supply (RS-232 and Ethernet versions only) | 100/240 VAC 50-60 Hz to 12 VDC 200 mA | 100/240 VAC 50-60 Hz to 5 VDC, 3 A |

| ORDERING INFORMATION | 1 Channel | 1 Channel | 4 Channels | 4 Channels |
|----------------------|--------------|-----------------|----------------|---------------------|
| Product Name | P-LINK (USB) | P-LINK (RS-232) | P-LINK-4 (USB) | P-LINK-4 (Ethernet) |
| Product Number | 200439 | 200440 | 202223 | 203485 |

Specifications are subject to change without notice

a. Using PC-LINK software.b. Using Octolink software.

POWER DETECTORS

M-LINK

Single Channel, PC-Based Universal Power and Energy Monitor



AVAILABLE MODELS



ACCESSORIES





KEY FEATURES

1. THE UNIVERSAL PC-BASED METER

Reads ALL Heads:

- Power: Thermopiles, Photo Detectors and Pyroelectrics
- Energy: Thermopiles (in single shot mode), Photo Detectors 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 M-LINK to your pulsed laser or digital chopper

4. DIGITAL (USB) OUTPUT

Connect the M-LINK module directly to your PC

5. POWERFUL LABVIEW SOFTWARE

Features include:

- Complete instrument controls: Range, Trigger, Wavelength, etc.
- Live display in J and J/cm² or W and W/cm²
- Full Statistics: Min, Max, Mean, Standard Deviation, RMS Stability, Repetition Rate, etc.
- Graphic Displays: Strip Chart, Histogram, Tuning Needle and more
- Data File Collection and Analysis

SEE ALSO

| ENERGY DETECTORS | 40 |
|-------------------------|-----|
| POWER DETECTORS | 66 |
| HIGH POWER DETECTORS | 102 |
| PHOTO DETECTORS | 116 |
| THZ DETECTORS | 132 |
| DÉTECTEURS OEM | 148 |
| LIST OF ALL ACCESSORIES | 194 |

Watch the Demo video available on our website at www.gentec-eo.com





SPECIFICATIONS

| | M-LINK |
|---|--|
| DETECTOR TYPES | ALL MODELS: Thermopiles, Pyroelectrics, Photo Detectors |
| DISPLAY | PC-Based |
| POWER METER SPECIFICATIONS | |
| | 4 W. 00 W. |
| Power Range | 4 pW to 30 kW |
| Resolution (Digital) | Current Scale/3000 |
| Monitor Accuracy | ±0.5 % ± 2 digits |
| Statistics | Current Value, Max, Min, Average, Std Dev., RMS & PTP Stability, Time |
| ENERGY METER SPECIFICATIONS | |
| Energy Range | 30 fJ to 30 kJ |
| Resolution (Digital) | Current Scale/3000 |
| Monitor Accuracy | 1 % ± 2 digits (<1 kHz) |
| Software Trigger Level | 0.1 to 99.9 %, 0.1 % resolution, default 2 % |
| Repetition Rate ^a | 1 000 Hz |
| Real Time Data Transfer | 1 000 Hz with time stamp, no missing point |
| Statistics | Current Value, Max, Min, Average, Std Dev., RMS & PTP Stability, Pulse #, Repetition Rate, Average Power |
| DETECTOR COMPATIBILITY | |
| Thermopile | Average Power & Single Shot Energy |
| Pyroelectric | Pulse Energy & Average Power |
| Photo Detectors | Average Power & Pulse Energy |
| GENERAL SPECIFICATIONS | |
| Digital Display | Computer Screen |
| Data Display | Real Time, Scope, Averaging, Statistics and Digital Tuning Needle |
| Serial Commands and Data Transfer Via | USB |
| Real Time Data Transfer Rate | 1 000 Hz with time stamp, no missing point (for pyroelectrics only) |
| Analog Output | 0-2 Volts, Full Scale, ± 2% (joulemeters) ± 4% (wattmeters) |
| Rising or Falling Edge External Trigger | 4.5 to 10 V @ 20 mA, optically isolated |
| Dimensions | 106W x 34H x 147D mm |
| Weight | 0.424 kg |
| ORDERING INFORMATION | |
| Product Name | M-LINK |
| | |

Specifications are subject to change without notice

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

201850

Product Number

SPECIAL PRODUCTS

M-LINK



PC-BASED UNIVERSAL POWER/ENERGY MONITOR

This PC-Based monitor is compatible with ALL types of detectors - including thermopiles, pyroelectrics and photo detectors - for both power and energy measurements. The device is available as a single channel unit that directly interfaces with a computer using a USB2.0 connection. The LabView software is included and comes with all the necessary features. The M-LINK also presents a unique digital technique of suppressing the noise, thereby extending the measurement range all the way down to the fJ level.

14.6 p p gention c o

VERSATILE SOFTWARE FOR THE UNIVERSAL M-LINK

What makes the M-LINK so universal is its compatibility with every detector type and model we make, and our smart software that recognizes the type of detector attached, and configures itself accordingly. Some of the basic software features include:

- Live Digital Reading
- Full Statistics
- Strip Chart

- Histogram
- Analog Tuning
- Data Logging

0.138 uW Gentice €0 Image In Trapport level file Dispyr Source Footibre Orr 2 Internal Positive Mean Value 0.137 uW Batch Size 100 Minimum Value 0.138 uW Count 100 Minimum Value 0.124 uW Continuous OFF RMS Stability 1.660 % FTP Stability 1.0.001 % Rep Rate 10 Average Power Statisics In Range

MEASURE POWER WITH A PHOTO DETECTOR

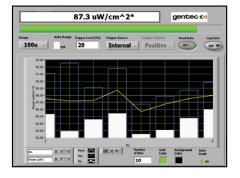
If you need to measure low power levels, from pW to mW, then we recommend one of our PH or PH-B detectors. In the software screen shown on the left, we have taken a data set working in the "STATS" display mode. We have set the batch size to 100 data points in the manual reset mode. You can see the live power (138 nW) and full complement of statistics: mean, max, min, RMS and PTP stability. In the bottom left hand corner you will note that a wavelength of 300 nm is displayed. This is where you will enter the wavelength of your laser and engage the wavelength correction factor.

0.404 W Service Color Auto Range Tragger Level Tol. Tolgger Source Tragger Polarity Service Color Out 2 Internal Positive On Of Polarity Service Color Auto-Color Auto-

MEASURE POWER WITH A THERMOPILE DETECTOR

You can select any of our Thermal Detectors to measure your laser power from a few μ W up to 30 kW. We used one of our most sensitive thermopile detectors, model XLP12-3S-H2, to generate the software screen shown on the left. We have selected the "SCOPE" mode, where you can view the live power reading (0.404 W), a bar graph and a strip chart while monitoring the power. This high level screen also provides access to range, trigger, auto scale, and many other monitor functions.

M-LINK



MEASURE POWER WITH A PYROELECTRIC DETECTOR

Need to measure the Radiant Flux (Watts) or Irradiance (W/cm²) of a broadband source like the sun, a lamp, a temperature controlled black body and/or a mid or far-IR laser? Our broadband pyroelectric detectors of the UM-B Series would be a great choice. To make the measurement that is displayed on the left, we set up our UM9B-BL detector with M-LINK, an SDC-500 Chopper running 10 Hz and our 725 °C Black Body Source. The M-LINK recognizes the UM9B-BL detector, sets the wavelength to 633 nm where it is calibrated and prepares it to measure the voltage square wave it generates. We have engaged the area correction as the 9 mm detector is over filled with radiation. We are therefore measuring Irradiance in W/cm².

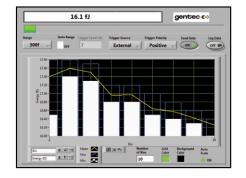
MEASURE ENERGY WITH A PYROELECTRIC DETECTOR

You can select one of our many large area Pyroelectric Detectors of the QE Series for energy measurements ranging from 50 nJ to 250 J and from DUV to Far IR. To demonstrate this capability, we have selected our QE8SP-B-BL and the M-LINK. We are looking at the "HISTOGRAM" screen, where you can continue to view the live measurement and a histogram that shows the energy distribution of your data set, along with a best-fit Gaussian curve. Note that you still have access to the instrument controls, like range, trigger, wavelength, etc.

99.3 uJ gentec €o Ringer Anda Kanger Trigger Level (N) Trigger Source Tr

MEASURE AT THE fJ LEVEL WITH A PE-B DETECTOR

For measurements in the fJ to μ J range, and from UV to Near-IR we suggest our PE3B-Si detector. It represents the state-of-the-art in low-end energy detector technology. Take advantage of our proprietary pulse averaging, noise reduction techniques available with M-LINK. In the example shown at the right, we have captured a data set while running in the "**AVERAGING**" mode. The bars represent minimum (white) and maximum (blue) energy values. The strip chart is based on the average energy value. You get to select the number of "BINS" represented here. "Pulse Averaging" is available in the Statistics screen.



MEASURE A HIGH ENERGY PULSE WITH A UP DETECTOR

If you are trying to measure a relatively high energy (Joules) single pulse (up to 300 msec long), you will select one of our Thermopile Power detectors (like the UP50-W9), have it calibrated in single shot mode and use the M-LINK to make the measurement. In the screen at the right, we have captured a long pulse that had a duration of a few hundred milliseconds and are displaying the energy in the "SCOPE" screen. Using a variety of our thermopile detectors, you can measure from 12 μ J to 500 J in a single pulse.

