PRONTO-250

0.5 W - 250 W power probes with touchscreen controls

KEY FEATURES

POCKET-SIZE
This mid to high power laser probe is so compact it fits in your pocket!

EASY TO USE
The color LCD touchscreen allows for a friendly user interface. You can make a measurement with just the touch of a button!

DATA LOGGING
Save your data to the internal memory and then transfer them to your PC over the USB connection.

FROM LOW TO HIGH POWERS
Thanks to a low noise level and high damage threshold, the PRONTO can measure powers from 0.5 W to 250 W.

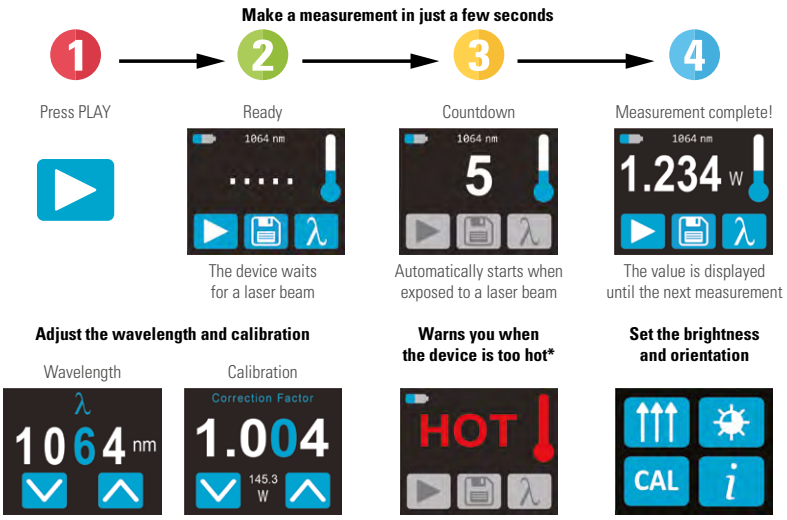
THE FLEXIBILITY TO PICK THE CALIBRATIONS YOU NEED
The PRONTO-250-FLEX offers three calibration options so you only pay for what you need:

- Default calibration "Y": for visible to NIR wavelengths (248 nm to 2.5 µm)
- Additional calibration "C": for CO_2 lasers (10.6 µm)
- Additional calibration "E": for energy measurements with ± 5 % accuracy

HANDS-FREE OPERATION
Place it on a flat surface or use one of the 2 threaded holes for safe use with optical stands.

SERIAL COMMANDS
Serial commands are available to let you take full control of your PRONTO from your PC.

USER INTERFACES (SSP MODE)



** Device may get hot, it is not recommended for handheld use when making a measurement*

3 MODELS FOR ALL YOUR MEASUREMENT NEEDS

PRONTO-250-EZ
Adapted to dirty environments, the PRONTO-250-EZ offers the same performance as PRONTO-250-FLEX, with the added advantage that it can be cleaned on-the-go.

- Perfect for field use

PRONTO-250-FLEX
PRONTO-250-FLEX comes with 3 measurement modes and can be used in a variety of applications:

- Single shot power (SSP): up to 250 W
- Continuous power (CWP): up to 8 W
- Single shot energy (SSE): up to 25 J

PRONTO-50-W5
This model has our proprietary absorber with extremely high damage thresholds to handle tightly focused beams without damaging the absorber.

- Single shot power (SSP): up to 50 W

CONNECTIVITY

HANDS-FREE

DATA TRANSFER TO PC

PRONTO-250
Specifications

CE NIST* Traceable WEEE/RoHS COMPLIANT
*Also traceable to NRC-CNRC

	PRONTO-250-FLEX & PRONTO-250-EZ			PRONTO-50-W5
	SSP Mode Measures in 5 s	CWP Mode Measures power continuously	SSE Mode Measures single-shot energy	
MAX AVERAGE POWER/ENERGY	250 W	8 W	25 J (up to 150 J for pulses >1 ms)	50 W
EFFECTIVE APERTURE	19 mm Ø			19 mm Ø
INTERFACE	Touchscreen color LCD display			Touchscreen color LCD display
MEASUREMENT CAPABILITY				
Spectral range	0.19 - 20 µm			0.19 - 10 µm
Calibrated spectral range	0.248 - 2.5 µm (default) 10.6 µm available with calibration option "C"			0.248 - 2.5 µm
Noise equivalent power/energy	10 mW	10 mW	60 mJ	4 mW
Minimum measurable power/energy	0.5 W	0.2 W	N/A	0.5 W
Exposure time	5 s	1.5 s response time	0.26 s	5 s
Measurement accuracy	± 3%	± 2.5%	± 5 % with additional calibration "E" Typical value as default	± 3%
Min repetition period (Max pulse width)	N/A	N/A	4 s (88 ms)	N/A
Display resolution	1 mW	1 mW	10 mJ	1 mW
DAMAGE THRESHOLDS				
Maximum average power density [a]	45 kW/cm² (at 1064 nm, 10 W, CW) 14 kW/cm² (at 10.6 µm, 10 W, CW)			100 kW/cm² (at 1064 nm, 10 W, CW)
Maximum exposure time [b]	6 s	N/A	N/A	6 s
Maximum device temperature [b]	65°C	40°C	40°C	65°C
USER INTERFACE				
Measurement controls	Wavelength selection and user calibration			Wavelength selection and user calibration
Measurement modes	Single Shot Power (SSP), Continuous Power (CWP) and Single Shot Energy (SSE)			Single Shot Power (SSP)
Data acquisition and transfer	Yes			Yes
GENERAL SPECIFICATIONS				
Display type	Touchscreen color LCD			Touchscreen color LCD
Display size	28.0 x 35.0 mm (128 x 160 pixels)			28.0 x 35.0 mm (128 x 160 pixels)
Data storage	50 000 pts			50 000 pts
Battery type	Rechargeable Li-ion			Rechargeable Li-ion
Battery life	17 hours or 4 200 measurements (with brightness set at 25%)			17 hours or 4 200 measurements (with brightness set at 25%)
Battery recharge via	USB port			USB port
PHYSICAL CHARACTERISTICS				
Effective aperture	19 mm Ø			19 mm Ø
Absorber	H9 (FLEX) or EZ (easy to clean)			W5
Mounting holes (for post)	2 x 8-32			2 x 8-32
Dimensions	59W x 181.4L x 17D			59W x 181.4L x 17D
Weight	210 g			210 g
ORDERING INFORMATION				
Compatible stand	STAND-S-233			STAND-S-233
Product page				

a. To get all the damage thresholds, see User Manual.
b. At maximum power.

Specifications are subject to change without notice
T 418.651.8003 | info@gentec-eo.com

PHOTO TECHNICA フォトテクニカ株式会社 〒336-0017 埼玉県さいたま市南区南浦和 2-18-2 TEL:048-871-0067 FAX:048-871-0068, https://www.phototechnica.co.jp e-mail:voc@phototechnica.co.jp
gentec-eo.com