

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Pyroelectric Energy Sensors

1mJ to 2µJ

PE9 / PE9-F



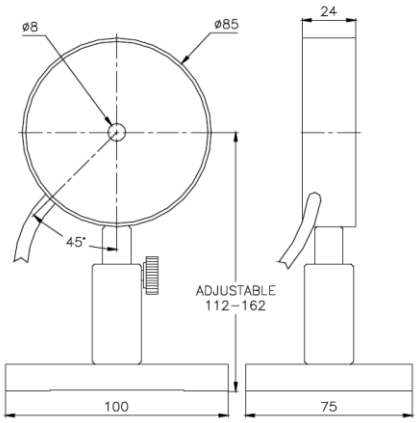
Features

- ϕ8mm aperture
- Repetition rates up to 25,000Hz
- Highest sensitivity sensors
- Pulse widths up to 15µs

Model	PE9	PE9-F [(d)]
Use	Most sensitive	Highest rep rate
Aperture mm	ϕ8	ϕ8
Absorber Type	metallic	metallic
Spectral Range µm [(a)]	0.15 - 12	0.15 - 12
Surface Reflectivity % approx.	50	50
Calibration Accuracy +/-% [(a)]	3	3
Max Pulse Width Setting	15µs	0.5µs
Energy Scales	1mJ to 2µJ	1mJ to 2µJ
Lowest Measurable Energy µJ	<0.2	0.3
Max Pulse Width µs	15	0.5
Maximum Pulse Rate pps	4kHz	25kHz
Noise on Lowest Range µJ	0.03	0.03
Additional Error with Frequency %	±2.5% to 3kHz, ±8% to 4kHz	±3% to 20kHz, -6% to 25kHz
Damage Threshold J/cm^2		
<100ns	0.1	0.1
1µs	0.2	0.2
300µs	3	3
Linearity with Energy	±1% ±10nJ [(c)]	±1% ±10nJ [(b, c)]
Maximum Average Power W	2	2
Maximum Average Power Density W/cm^2	30	30
Fiber Adapters Available (see page 74)	ST, FC, SMA, SC	ST, FC, SMA, SC
Weight kg	0.25	0.25
Version	V2	
Part Number: Standard Sensor	7Z02877	7Z02882
StarLink Sensor: Direct USB link to PC (p.73)	787151	
Notes: (a) Calibrated curve is checked and adjusted at the following wavelengths (µm)	0.193, 0.355, 1.064, 1.48-1.6	
For other wavelengths in the curve there is additional calibration error as stated.	240 – 800nm add ±4%, 2-3µm add ±8%, 10.6µm add ±15%	
Note: (b) On lowest scale, offset can reach -100nJ for frequencies below 5kHz		
Note: (c) For >10% of full scale		
Note: (d) PE9-F sensor does not operate with Nova.		

END OF LIFE

PE9 / PE9-F



Rev10/spc/08.11.12/eg

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

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We're here to make your life easier. How can we help you today?

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