EnergyMax Sensors - Standard DB-25

Diffuse Metallic Coating



Powe & Energy Meters

USB/RS Power Sensors

DB-25 Power Sensors

USB/RS Energy Sensors

DB-25 Energy Sensors

Custom & OEM

BEAM DIAGNOS



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CALIBRATION & SERVICE

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J-50MT-10KHZ, J-25MT-10KHZ and J-10MT-10KHZ

Features

- Unique diffuse metallic coating delivers increased damage threshold, allows high repetition rate operation and reduces specular reflectance
- Operate over the entire 190 nm to 2.1 µm range
- Enable pulse energy measurements from 100 nJ to 1J with high signal-to-noise characteristics
- Measure up to 10 kHz repetition rate
- Spectral compensation characteristics built into each unit
- Onboard sensors provide automatic temperature compensation¹

These sensors incorporate a diffuse metallic coating that enables measurements at high and low repetition rates across a wide range of energies, and wavelengths from 190 nm to 2.1 μm . The damage resistance at 532 nm and shorter wavelengths is higher than the MaxBlack coating. These sensors are not compatible with FieldMaxII meters because the response time is too fast. They are best suited for the LabMax-TOP meter.

Device	Model	J-50MT-10KHZ	J-25MT-10KHZ	J-10MT-10KHZ
Specifications	Energy Range	500 µJ to 1J²	50 µJ to 100 mJ	100 nJ to 200 µJ
	Noise Equivalent Energy	<16 µJ	<2 µJ	<10 nJ
SO/IEC 17025:200	5 Wavelength Range (μm)	·	0.19 to 2.1	
	Active Area Diameter (mm)	50	25	10
	Maximum Average Power (W) ³	20	10	1
			1.7	
¥2 24	 Maximum Repetition Rate (pps) 		10,000	
	Maximum Energy Density (mJ/cm ²)	500 (at 106	64 nm, 10 ns)	50 (at 1064 nm, 10 ns)
	Detector Coating	Diffuse Metallic		
	Diffuser	No		
	Calibration Wavelength (nm)	1064		
	Calibration Uncertainty (%)(k=2)		±2	
	Energy Linearity (%)	±3		
	Cable Length (m) ⁴		2.5	
	Cable Type		J DB-25	
	Part Number	1110574**	1110747**	1110856**

**C24 Quick Ship program: eligible for next business day shipment.

16.54 mm (0.65 in.)

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50.80 mm (2.0 in.)

X 5.84 mn (0.23 in.)

6H THD 5.08 mn -M6-6H THD XV 5.08 mm (0.20 in.) and No. 1/4-20 UNC-2B THD XV 5.08 mm

.20 in.) fo

J.LD

 $^2\,$ Optional energy range 50 μJ to 100 mJ available.

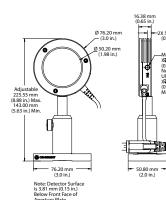
¹ Except J-10MT-10KHZ.

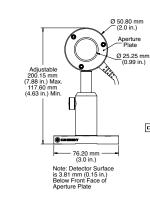
³ Extend average power range with optional heat sink. See page 75 and 94.

J-25MT-10KHZ

4 Cable lengths up to 10m possible. Contact factory.

J-50MT-10KHZ





J-10MT-10KHZ

