

Power Monitor OPM500

The flexible one!



Highlights:

- Flexible setup
- Easy to use
- Powerful

Our offer in Detail:

The OPM500 is a versatile power monitor for use in the lab and for laser servicing as well as for OEM applications. This instrument can be delivered with a fibre input (as depicted above) or for a free beam input. Functional control is via the USB interface or via the DB25 hardwire interface for direct, sub µs control of all parameters. This feature is useful for OEM implementation in feedback loops such as fibre alignment applications.

Detectors are available covering 190-1100nm, 800-1550nm, 800-1650nm and 400-1600nm. The graphical user interface is intuitive to use and easy to read! The software includes a scope function, data logging and a large, digital display – perfect for daily use in the lab or in the field. Further functions such as autogain and various storage formats are also included.

The OPM500 is small and is USB controlled. Not only the small size qualifies this instrument for OEM applications. It is very simple and flexible to integrate into your project. The unit comes delivered with drivers for direct communication or to be used as a virtual COM-port. Furthermore, we provide a full software development kit including the source code for the GUI application as well as a demo LabView-VI®.

Specifications

- USB controlled
- 30 Hz update rate with GUI, 1000 Hz as data logger
- 6 gain ranges from 100nW to 3mW full scale (30pW NEP!)
- Selectable bandwidth limitation

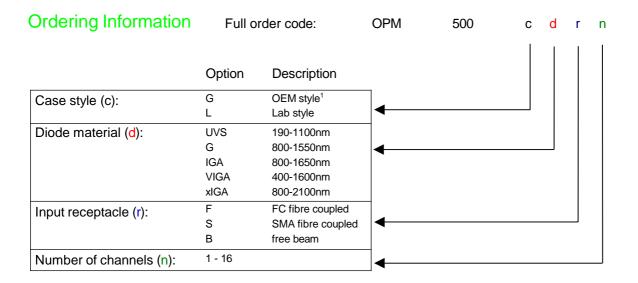


Your problem is our challenge – flexibility is our standard:

We will gladly adapt, for example, the wavelength or the case style to suit your application. Let us know your requirements.

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Specifications

Parameter	Conditions	St, InGaAs			GE			
		Min	Тур	Max	Min	Тур	Max	Units
Input	•	•						
Power ranges (full scale)			+5 ²			+15		dBm
			0			+10		
			-10			0		
			-20			-10		
			-30 -40			-20 -30		
Noise equivalent power (NEP _{RMS})	Range 1-5		-40	full scale -45		-30	full scale –32	dB
	Range 6			-75			-62	dBm
Receptacles		FC, FSMA, free beam					*	
Output		ı						
Function		Linear analogue : V _{out} = scale x P _{in}					o in	
Output scale	Range 1		1 ²			0.1		V/mW
	Range 2		10			1		.,,,,,,
	Range 3		100			10		
	Range 4		1			0.1		V/µW
	Range 5		10			1		
	Range 6		100			10		
Output Range (full scale)				10			*	V
Connectors		BNC and DB9			*			
Rise / Fall time (10% - 90%)	Small signal (-1→+1V)			45			*	μs
	Large signal (-10→+10V)			65			Î	
Accuracy		± 5			*			%
Reproducibility		± 0.5			*			%
Linearity			± 0.1	± 0.2		*	*	dB
Logic								
Current required for switching		-10	0.01	10	*	*	*	μA
Switching time				50 ³			*	Ţ,
_				50				μs
Dimensions	,							
	1 channel	105 ⁴ x 45 x 116 mm (w x h x l)					*	mm



¹ Small OEM-style case with gull wings for mounting

 $^{^{2}}$ linearity guaranteed to 0dBm (1 mW)

 $^{^3}$ Logic switching < 1 μ s. Effective switching time limited by settling time.