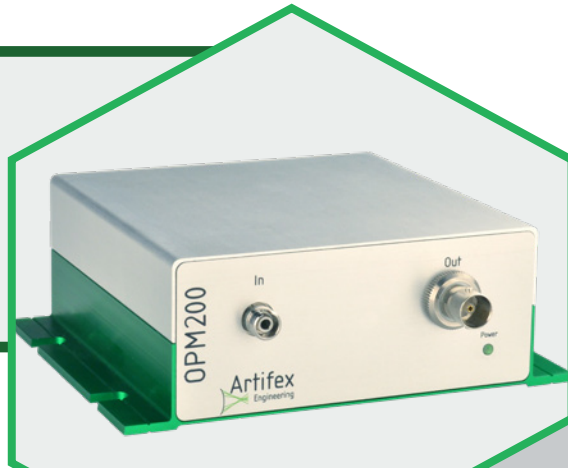


Power Monitor OPM200

WHAT COULD BE EASIER?

Why?

- Low cost
- Simple Control
- Powerful



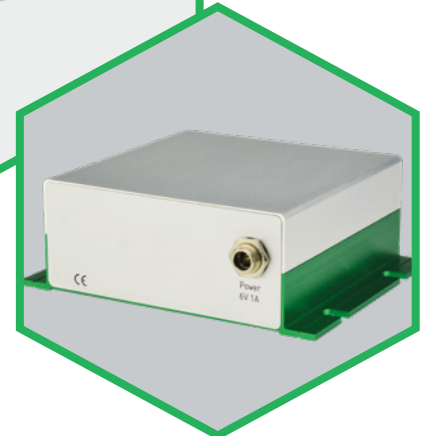
Our Offer in Detail:

The OPM200 amplifier employs high quality photodiodes and precision transimpedance input stages to provide for low offset and high linearity throughout the full dynamic range.

The optical power monitor OPM200 is designed for precise, high speed measurement of optical power in the μW to mW range. The output is a voltage linearly proportional to the input power. The gain of the OPM200 is fixed.

These optical power monitors are particularly useful for the measurement of rapidly changing optical signals. These units have a particularly high bandwidth of 5MHz allowing monitoring of high frequency noise components of many light sources. The output is a voltage linearly proportional to input power. The fast response time at high signal-noise-ratio makes the OPM200 series particularly useful in systems control feedback loops.

The OPM200 series is insensitive to electromagnetic interference by design, an important factor when working in „dirty“ industrial environments. These units are provided in OEM-style enclosures. The case wings provide for mounting on standard 25mm and 1“ optical table tops and for OEM applications.



Specifications:

- Interfaces: DB9 (analogue outputs)
- Rise time: 70ns (5MHz)
- Noise equivalent power: $1\mu\text{W}$ (RMS)
- Gain control: none

Your problem is our challenge - flexibility is our standard:

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

Specifications:

Parameter	Conditions	Si, InGaAs			Ge			Units
		Min	Typ	Max	Min	Typ	Max	
Input								
Wavelength range	UV-Si VIS-InGaAs X2.0 InGaAs X2.5 InGaAs	200 400 700 700		1000 1600 2000 2490	800		1600	nm
Power ranges (full scale)			4.5 ¹			45 ²		mW
Noise equivalent power (NEP _{RMS})				0.3			3	μW
Polarisation Dependant Loss (PDL)			0.02	0.1		0.02	0.1	dB
Fibre type		single-mode, multi-mode (Ø core ≤ 62.5μm; NA ≤ 0.275)			single-mode, multi-mode (Ø core ≤ 62.5μm; NA ≤ 0.275)			
Receptacles		FC, FSMA, free beam			FC, FSMA, free beam			
Output								
Function		Linear analogue : $V_{out} = \text{scale} \times I_{in}$			Linear analogue : $V_{out} = \text{scale} \times I_{in}$			
Output scale			1			0.1		V/mW
Output range (full scale)		4.4	4.5 ³	4.6				V
Connectors		BNC ⁴ und DB9			BNC ⁴ und DB9			
Rise / Fall time (10% - 90%)				70			70	ns
Setting time (1%)				100			100	ns
Accuracy		± 5			± 5			%
Reproducibility		± 0.5			± 0.5			%
Linearity			± 0.1	± 0.2		± 0.1	± 0.2	dB
Output impedance				50			50	Ω
POWER SUPPLY								
Type		Wall plug (supplied)			Wall plug (supplied)			
Dimensions		30 x 50 x 60			30 x 50 x 60			mm
DIMENSIONS								
	1 channel	105 ⁵ x 45 x 116 (w x h x l)			105 ⁵ x 45 x 116 (w x h x l)			mm
	2 channel	105 ⁵ x 66 x 116 (w x h x l)			105 ⁵ x 66 x 116 (w x h x l)			mm
	4 channel	105 ⁵ x 106 x 116 (w x h x l)			105 ⁵ x 106 x 116 (w x h x l)			mm

¹ linearity guaranteed to 1mW (0dBm) for Si and 7mW (8.5dBm) for InGaAs.

² linearity guaranteed to 5mw (7dBm)

³ linearity guaranteed to 1mW (0dBm) for Si and 7mW (8.5dBm) for InGaAs.

⁴ Adapters for other connector systems available

⁵ 130 mm including case wings