

Tap Power Monitor

For fiber optic communication, medical instrumentation, fiber sensor, and fiber laser

WSP's Tap Power Monitors have the industry highest standards in regard to accuracy and long-term stability. They are designed to have the highest responsivity (R) for the tap signal and minimal insertion loss (IL) for the optical through signal. For PM fiber versions, our proprietary design and process preserve the input PM light with high polarization extinction ratio (PER). The selections for basically all types of fibers and connectors are available.

WSP's Tap Power Monitors have long been used in medical instrumentation, sensing and fiber laser industries.

WSP can provide customized designs to meet specialized applications.



Features:

- High responsivity
- Linear responsivity
- Low insertion loss
- High extinction ratio
- Wide passband
- Integration with other functions are available
- Customer wavelength &

Applications:

- Fiber optic communication
- Fiber lasers and amplifiers
- Sensing system
- Instrumentation

Technical Data

Parameter	Unit	Specifications			
Operating Wavelength	nm	980 ~ 1620			
Tap Ratio	nm	1	2	5	10
Max Insertion Loss (for pass signal)	dB	0.5	0.5	0.6	0.9
Fiber		PM850, PM780, PM98, PM13, PM15, SMF28, HI1060, single-& double-clad PM-LMA, or customer specify			
Responsivity	mA/W	7 - 12	14 - 24	35 - 60	70 - 120
Dark Current	nA	≤1.0 (@25°C, 5V bias)			
Polarization Extinction Ratio	dB	> 25 (for PM fibers)			
Maximum Input Power	dBm	30	27	23	20
Maximum Input Power	mW	1000	500	200	100
Return Loss	dB	≥ 45			
Dark Current	nA	≤1.0 (@25°C, 5V bias)			
Reverse Voltage	V	≤30			
-3dB Bandwidth	GHz	≥1.5			
Dimension	mm	Ø3.0X18			
Operating Temperature	°C		-5	70	
Storage Temperature	°C		-40	85	

* for some LMA fibers PERs are limited by fiber PERs