

EP300 Series PON Power Meter

Key Benefits

- Simultaneously verifies the power levels of all PON wavelengths (1310 nm, 1490 nm and 1550 nm)
- Pass/fail analysis helps user quickly interpret results and ensures consistent PON network turn-up
- Green light/red light LED helps user easily identify pass/fail results
- Rugged unit is water- and shock-resistant

The EP300 is a passive optical network (PON) power meter that enables users to quickly validate PON network installations. It measures 3 EPON wavelengths (1310/1490/1550 nm) at once, with user-defined limits and USB data transfer to simplify interpretation. New models EP310 & EP90 feature an updated chassis with improved performance for cost (see model guide below).



Model Guide

Model	Features
EP300	Classic, impact-resistant body with USB port
EP310	Improved design offers equivalent performance at lower cost; new dustcap allows easier test port access
EP90	See EP310. Includes Visual Fault Locator (VFL) to detect faults, bends, and splices in test fiber.

Specifications

Optical Parameters						
Wavelength	1310nm		1490nm		1550nm	
Measurement range	CW	-45 ~ +10dBm	-45 ~ +12dBm		-40 ~ +25dBm	
	BW	-30 ~ +8dBm				
Passthrough insertion loss	< 1.5dB					
Spectral Passband	1260 ~ 1360nm		1480 ~ 1500nm		1540 ~ 1560nm	
Wave Isolation	1490nm	>50dB	1310nm	>40dB	1310nm	>40dB
	1550nm	>50dB	1550nm	>40dB	1490nm	>40dB
ORL	-55dB (APC connector)					
Fiber Type	Single-mode fiber, 9/125µm					
Connector Type	FC/SC/ST-UPC (default), APC (optional)					
General						
Power uncertainty	< 0.5 dB					
Units	dBm; dB; mW; µW; nW					
Resolution	0.1 dBm					
Battery	3x AA batteries (EP300); 2x AA batteries (EP310); AC 100~240V ±10% output / DC 5V (adapter)					
Limit function	12 programmable limit profiles with Toolbox software					
Data storage	Up to 1,800 measurements; save & transfer data with USB port					
Environment	Operating temperature -10 ~ +60°C; storage temperature -20 ~ +70°C					
Dimensions	7.3" x 3.3" x 1.8" (185mm x 85mm x 45mm)					
Weight	10.6oz (< 300g) (w/o batteries)					