

Optical Power Meter

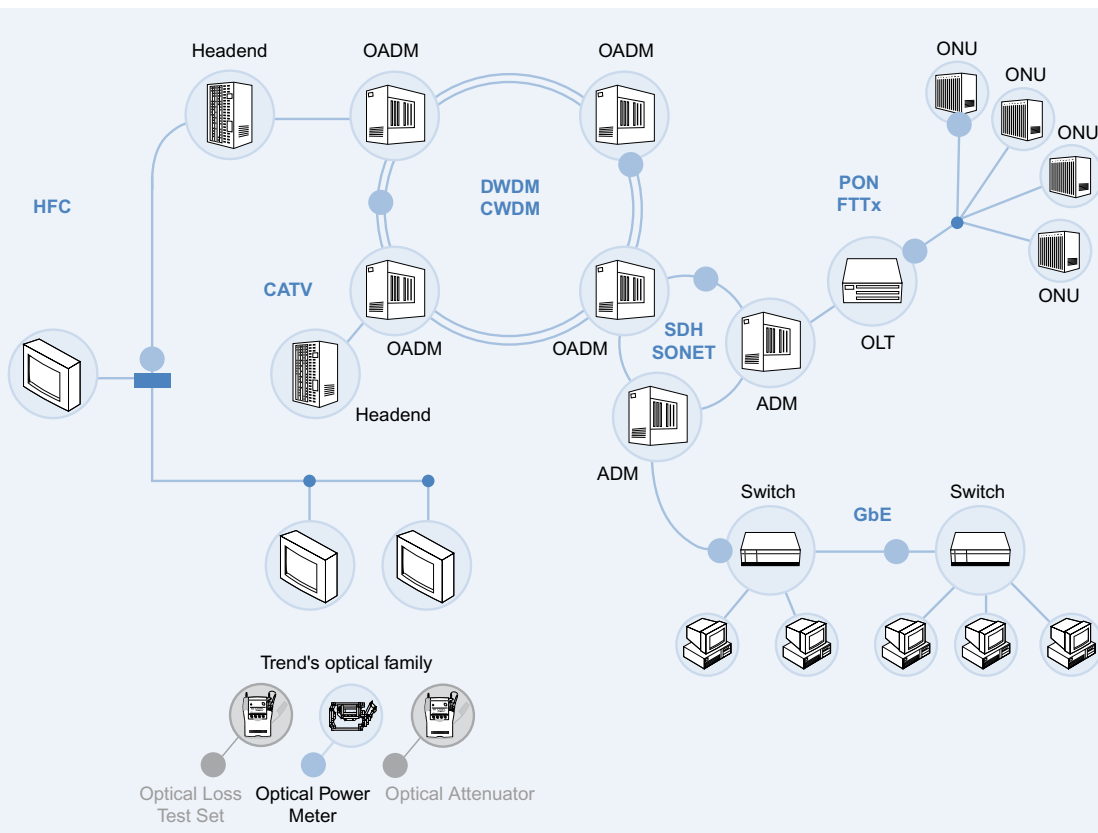


Today, optical technology is universally used for communications applications. The bandwidth of core networks is growing thanks to Wavelength-Division Multiplexing (WDM). Gigabit Ethernet is bringing optical communications to the LAN, and optical technology seems to be very suitable for residential customers using the Fibre to the x (FTTx) access network.

Trend's family of optical testers are designed to be productive in the new age of optical communications. Easy operation, rugged design and long battery life make these testers ideal for field use.

Trend's Optical Power Meter is a tester that enables field technicians or laboratory personnel to measure power and loss in optical links. Its InGaAs detector has exceptional accuracy, combined with an incredibly simple user interface.

Used together with Trend's Optical Loss Test Set, the Optical Power Meter can perform automatic dual wavelength testing.



- Ergonomic and rugged design
- Protective snap-on cover for optical connectors
- Rugged design
- Easy to use
- Low cost
- 1200 h of battery life
- Interchangeable connectors
- Single mode or multimode
- Accuracy of 0.13 dB
- Fully traceable calibration
- 3-year calibration cycle
- 1-meter drop tested
- dBm / dB / mW / μ W / nW display
- Display hold function

Accuracy

guaranteed for years

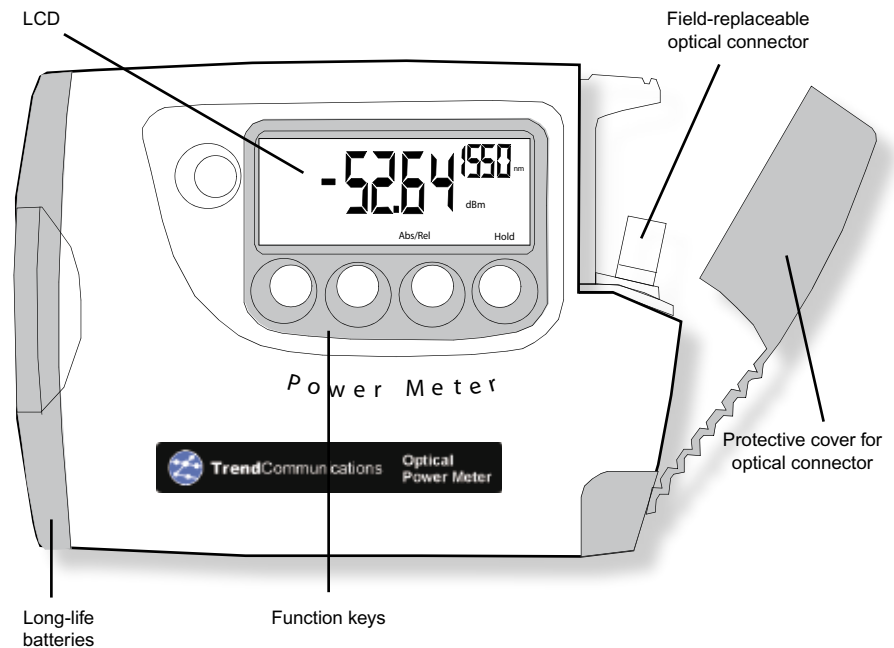
A Winner in its Class

Trend's Optical Power Meter measures relative and absolute light levels in multimode and single mode optical communications systems.

The tester has a rugged, ergonomic design, and it has been 1-meter drop tested. With its battery life of up to 1200 hours, it is the tester any field technician would like to have.

To make the Optical Power Meter even more suitable to field conditions, we equipped it with field-replaceable SC and FC connectors and protected them by covers to avoid dust or damage.

No wonder this tester is known as a winner in its class.



Rugged Design

for testing anywhere

Simple and Reliable

Get the Optical Power Meter working to the maximum with just a few keystrokes and quick setup.

Use the Auto test feature to configure the tester automatically when it works in a team with another tester of the same family.

When using the Optical Power Meter, you will notice that the ability to obtain accurate results is not compromised by the simplicity of operation.

The InGaAs detector has an exceptional accuracy of 3%, and it works in the range between -60 dBm and +15 dBm. The fully traceable calibration process guarantees entirely confident testing for years.

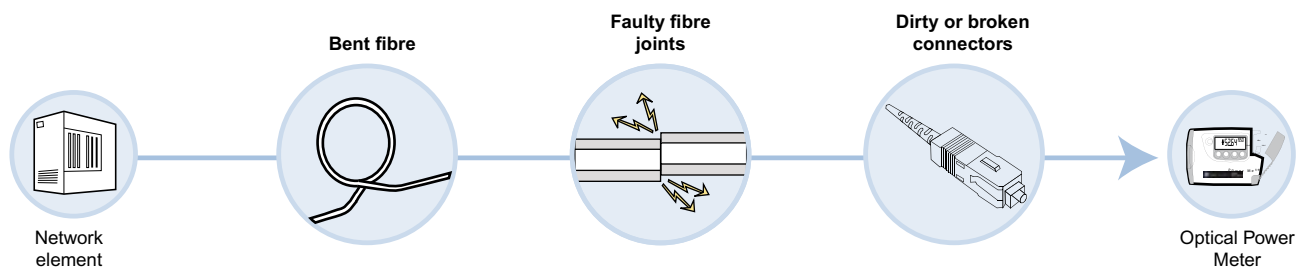


- +15 to -60 dBm power level
- Max. / Min. recording for stability testing
- Tone detector
- Auto wavelength detection with any compatible auto test source
- InGaAs detector

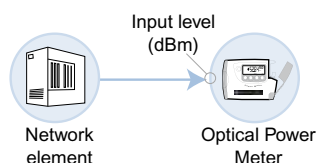
Easy and reliable testing

Reliable

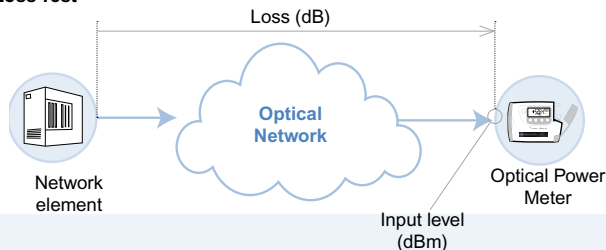
but simple



Output Power Test



Loss Test



Loss Tests

The optical fibre is a high-quality transmission medium. If it is correctly manufactured, installed, and handled, it provides high bandwidth with low noise and attenuation. Broken, faulty or incorrectly manipulated fibre, however, may attenuate signals more than you would expect.

If you want to guarantee error-free operation, you will have to run loss tests before bringing a new link into service.

With the Optical Power Meter you can run loss tests that will also be very useful when troubleshooting and monitoring applications of optical systems.

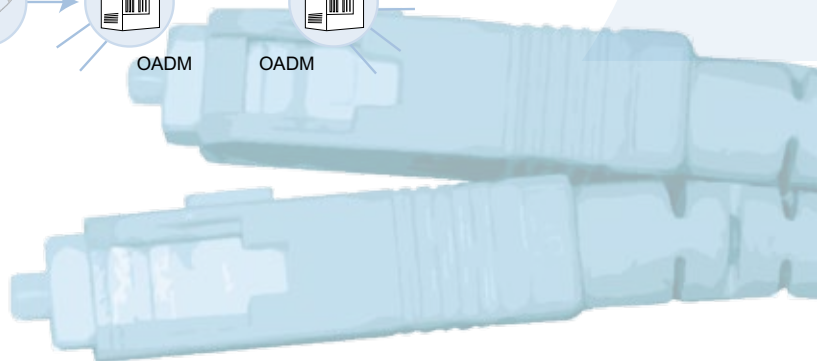
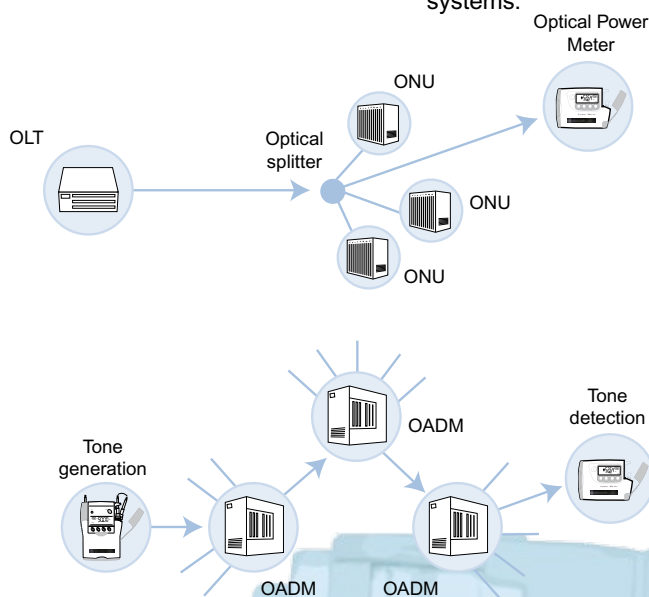
Received Power in Optical Systems

Use the Optical Power Meter to evaluate the received power at any point in the fibre network to check if it is within an acceptable range.

Continuity Test

You can identify optical fibre by using the tone generation feature of Trend's Optical Loss Set. A test tone of selectable frequency is transmitted through the optical fibre and identified by the Optical Power Meter.

This feature is also helpful when you need to test end-to-end transparency of optical links and networks.



Optical Power Meter

Power Meter	<p>Detector type: InGaAs</p> <p>Calibrations: 6 wavelengths from 850 to 1610 nm</p> <p>Wavelength range: 800-1700 nm</p> <p>Power range: +15 to -60 dBm</p> <p>Damage level +25 dBm</p> <p>Mid range Linearity: 0.02 dB (excludes top 3 dB and bottom 10 dB of range)</p> <p>Polarisation Sensitivity: < 0.005 dB (typical)</p> <p>Total Uncertainty: 0.3 dB (max.)</p> <p>No warm up period</p> <p>Fibre Core Diameter: 200 micro meters (max.)</p> <p>Tone detection and buzzer from 150 to 9999 Hz</p> <p>Display in dBm or micro Watts</p>
Results	<p>Instant results, traceable measurements, multiple λ analysis</p> <p>Max. / Min. recording for stability testing</p> <p>Display hold function</p> <p>Display and storage of separate results for each λ</p> <p>Resolution: 0.01</p> <p>Display: mW, μW, nW, dB, dBm, λ</p> <p>Auto test</p>
Ergonomics	<p>Case: Polycarbonate. One meter drop tested.</p> <p>Size: 165 x 120 x 40 mm</p> <p>Weight: 0.35 kg</p> <p>Operating temperature: -15 to 55 °C</p> <p>Storage temperature: -25 to 70 °C</p> <p>Interchangeable connectors, protected, metal free, easy cleaning for SC and FC.</p>
Power	<p>2 alkaline 'C' cells</p> <p>Duration: 1200 h</p> <p>Selectable auto-off</p> <p>Low battery indicator</p>
Accessories	<p>NATA Traceable calibration certificates including: Power Meter and wavelength</p> <p>Carry case</p> <p>Multilingual user guide</p>