Figure 1. ATI-P2100D-NA-LI-SC-AP-NA and Accessories

Figure 2. 3D View of ATI-P2100D-NA-LI-SC-AP-NA

Figure 4. 3D View of ATI-P2100D-NA-LI-SC-AP-NA

Figure 3. Front View of ATI-P2100D-NA-LI-SC-AP-NA

Figure 5.Back View of ATI-P2100D-NA-LI-SC-AP-NA

FEATURES

- High-definition color LCD for clear, adaptable display
- Advanced wavelength separation with high-isolation optical components
- Reference value settings with alert functionality for precise monitoring
- Compatible with multiple connector types for diverse applications
- Stores up to 999 data entries with easy retrieval
- Memory retention for shutdown
- Multiple power supply options, and customizable VFL functionality
- User-friendly backlight adjustment and automatic power-off features.

APPLICATIONS

- FTTx/PON Network Installation: Suitable for on-site installation and commissioning of Fiber-to-the-Home (FTTH) / Passive Optical Networks (PON).
- Network Maintenance: Supports regular testing and inspection of deployed multi-standard networks including EPON, GPON, 10GPON, XGPON, and more.
- Fault Diagnosis: Utilizes a Visual Fault Locator (VFL) to rapidly identify fiber breakpoints, bends, and other fault locations.

DESCRIPTION

The XGPON Power Meter is a portable optical power meter tailored for FTTx/PON network installation, maintenance, and troubleshooting. It supports EPON, GPON, RFOG, 10GPON, 10GEPON, and XGPON, measuring both downstream (1490nm/1550/1577nm) and upstream (1270nm/1310nm/1610nm) wavelengths simultaneously with high accuracy. Equipped with a Visual Fault Locator and threshold-based pass/fail analysis, it streamlines diagnostics and reduces troubleshooting time. Its high-definition color LCD with adjustable backlight ensures optimal visibility in any lighting condition. Lightweight, compact, and user-friendly, it offers extended standby time and automatic shutdown.

SPECIFICATIONS

Table 1.

Parameter	P2100					
Technical Parameter						
Measuring Wavelength (nm)	1270	1310	1490	1550	1577	1610
Spectral Bandwidth (nm)	1260~1280	1300~1320	1480~1500	1540~1560	1570~1581	1600~1620
Optical Isolation (dB)	>30 @1310	>30 @1270	>40 @1270	>40 @1270	>40 @1270	>40 @1270
	>40 @1490	>40 @1490	>40 @1310	>40 @1310	>40 @1310	>40 @1310
	>40 @1550	>40 @1550	>35 @1550	>35 @1490	>40 @1490	>40 @1490
	>40 @1577	>40 @1577	>40 @1577	>30 @1577	>30 @1550	>40 @1550
	>40 @1610	>40 @1610	>40 @1610	>40 @1610	>40 @1610	>40 @1577
Measuring Range (dBm)	−40~+10	−40~+10	−40~+10	−40~+20	−40~+10	−40~+10
Probe Type	InGaAs					

Parameter	P2100
Optical Port	SC/APC (Customized SC/UPC)
Measurement Unit	dB/dBm/mW/uW/nW
Display Resolution	0.01dB
Power Uncertainty	±0.5dB
Linearity	±0.1dB/10dB
Channel Insertion Loss	<1.5dB
Data Storage	999 Groups
Visual Fault Location	
Output Power	10mW / 20mW
Connector	2.5mm Universal Connector + FC or SC
Wavelength	650nm
Spectral Line Width (20°C)	±10nm
Mode of Fiber Optic	SM, MM
Tone Detect	CW, 2KHz
General Parameters	
Automatic Shutdown Time	5 ~ 90 minutes (Adjustable)
Power Supply	5v2A
	2000 mAh Rechargeable Battery
Continuous Working Time	Working Time >32 hours, Standby Time > 60 hours
Working Temperature	−10~+60°C
Storage Temperature	−25~+70°C
Product Dimension	76×177.5×40mm
Product Weight	0.28kg

NAMING PRINCIPLE

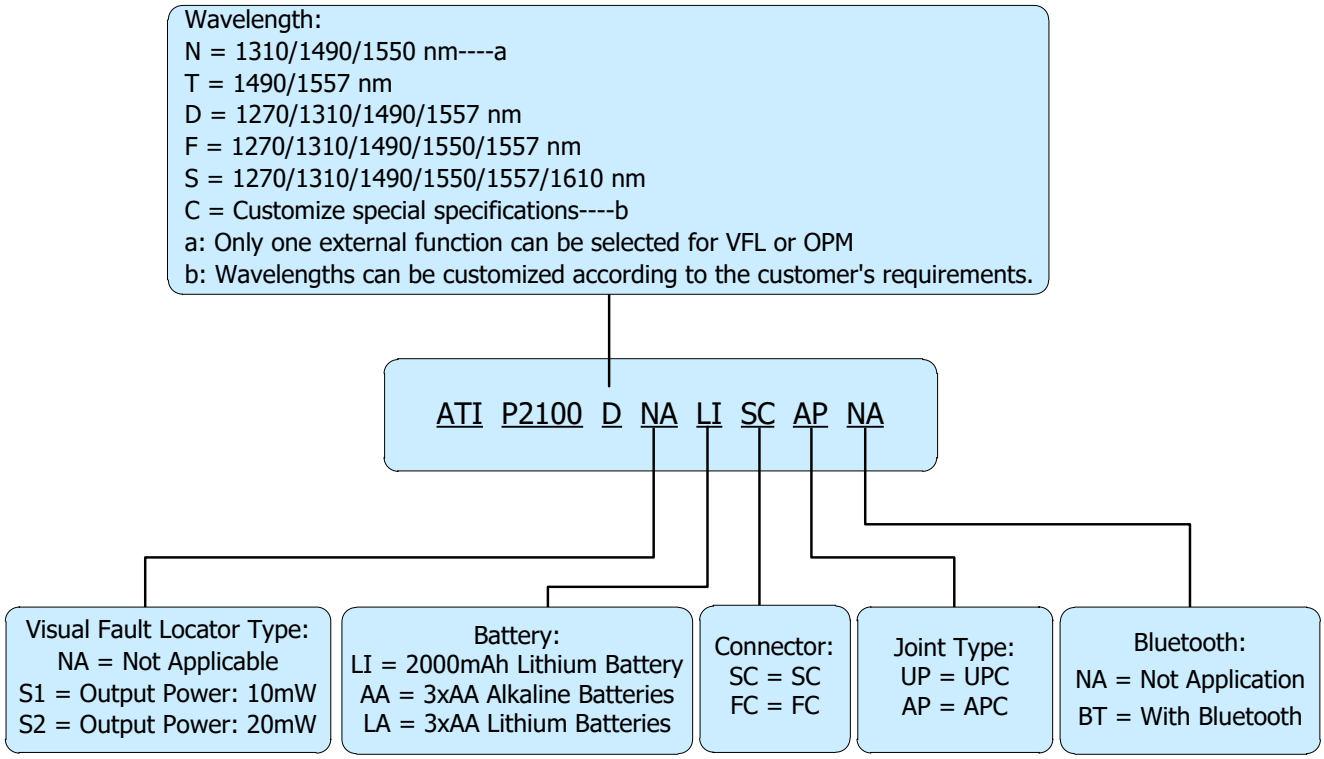

Figure 6. Naming Principle of ATI-P2100D-NA-LI-SC-AP-NA

ORDERING INFORMATION

Part Number	Buy Now
ATI-P2100D-NA-LI-SC-AP-NA	* *

*: both and are our online store icons. Our products can be ordered from either one of them with the same pricing and delivery time. Wavelengths can be customized according to the customer's requirements.

NOTICE

1. It is important to carefully read and follow the warnings, cautions, and product-specific notes provided with electronic components. These instructions are designed to ensure the safe and proper use of the component and to prevent damage to the component or surrounding equipment. Failure to follow these instructions could result in malfunction or failure of the component, damage to surrounding equipment, or even injury or harm to individuals. Always take the necessary precautions and seek professional assistance if unsure about proper use or handling of electronic components.

2. Please note that the products and specifications described in this publication are subject to change without prior notice as we continuously improve our products. Therefore, we recommend checking the product descriptions and specifications before placing an order to ensure that they are still applicable. We also reserve the right to discontinue the production and delivery of certain products, which means that not all products named in this publication may always be available.
3. This means that while ATI may provide information about the typical requirements and applications of their products, they cannot guarantee that their products will be suitable for all customer applications. It is the responsibility of the customer to evaluate whether an ATI product with the specified properties is appropriate for their particular application.
4. ATI warrants its products to perform according to specifications for one year from the date of sale, except when damaged due to excessive abuse. If a product fails to meet specifications within one year of the sale, it can be exchanged free of charge.
5. ATI reserves the right to make changes or discontinue products or services without notice. Customers are advised to obtain the latest information before placing orders.
6. All products are sold subject to terms and conditions of sale, including those pertaining to warranty, patent infringement, and limitation of liability. Customers are responsible for their applications using ATI products, and ATI assumes no liability for applications assistance or customer product design.
7. ATI does not grant any license, either express or implied, under any patent right, copyright, mask work right, or other intellectual property right of ATI.
8. ATI's publication of information regarding third-party products or services does not constitute approval, warranty, or endorsement.
9. ATI retains ownership of all rights for special technologies, techniques, and designs for its products and projects, as well as any modifications, improvements, and inventions made by ATI.
10. Despite operating the electronic modules as specified, malfunctions or failures may occur before the end of their usual service life due to the current state of technology. Therefore, it is crucial for customer applications that require a high level of operational safety, especially in accident prevention or life-saving systems where the malfunction or failure of electronic modules could pose a risk to human life or health, to ensure that suitable measures are taken. The customer should design their application or implement protective circuitry or redundancy to prevent injury or damage to third parties in the event of an electronic module malfunction or failure.

