TFN

TFN GP200 Optic Cable Identifier (OCID) | Optical Communications Comprehensive Tester

Product Overview

The TFN GP200 series is a high-performance optical communications test instrument that combines the functions of a fiber optic cable identifier and an OTDR. Designed specifically for telecommunications engineers and fiber optic cable maintenance personnel, it is suitable for fiber optic cable identification and fault location in a variety of complex environments, such as manholes, tunnels, pipelines, and overhead poles. Utilizing non-destructive testing technology, this instrument offers simple operation and precise identification, making it an ideal tool for fiber optic cable maintenance and resource management.

Product Selling Points (Solving Customer Pain Points)

- **Non-destructive Testing** : Eliminates traditional destructive identification methods such as cutting and bending, ensuring cable safety.
- **Efficient and Accurate** : Combining a visual bar graph/ECG mode with audio feedback, it delivers high identification accuracy.
- **Long-Distance Testing:** Supports testing distances up to 100 km (GP200-100 model), meeting the needs of long-distance trunk line testing.
- **Strong Environmental Adaptability:** Accurately identifies even broken cables or those terminated with APC connectors.
- **Easy Operation:** Dual operation modes, including touchscreen and push-button, support both automatic and manual operation modes for quick learning and high efficiency.
- **Powerful Battery Life:** Built-in lithium polymer battery provides 10+ hours of continuous operation, making it suitable for field work.

Core Functions

1. Fiber Optic Cable Identification and Location: Based on the photoelastic effect, the device converts vibration signals from tapping into visual/audio signals, enabling easy identification of target optical cables.
2. OTDR Testing: Supports single-fiber testing and accurately locates fault points.
3. Multi-Environment Applicability: Suitable for various installation environments, including pipelines, tunnels, manholes, and overhead installations.

4. Non-destructive Testing: Eliminates the need to cut, bend, or freeze optical cables, preserving line integrity.

5. Terminal Adaptability: Supports identification of PC/APC connectors and broken optical cables, providing strong environmental adaptability.

Product Parameters

Item	GP200-40	GP200-100
Maximum Test Distance	40km	100km
Wavelength	1550nm	1550nm
Unidirectional Cable Loss	10dB	28dB
Light Source Output Power	-15dBm	-15dBm
Signal-to-Noise Ratio	≥25dB	≥25dB
Fiber Interface	SM	SM
Connector Type	FC/APC	FC/APC

General Specifications:

1. Display: 5.6-inch touchscreen

2. Power supply: DC12V/3A, 7.4V/10.4Ah polymer lithium battery

3. Operating temperature: 0°C to 45°C

4. Weight: 1.5kg (including battery)

5. Dimensions: 65×150×235mm

Application Scenarios

- Telecommunications operator equipment room construction and line upgrades
- Fiber optic cable splicing and resource surveys
- Fiber optic cable maintenance and troubleshooting
- Fiber optic cable positioning in complex environments such as pipelines, tunnels, and manholes

Standard Configuration

1. GP200 main unit (includes stylus pen and lithium battery)

2. Wrist strap, power adapter, CD (including manual)

3. User manual, certificate of conformity, warranty, test report, calibration report

4. FC flange, earphones, FC/APC patch cords, tapping stick, carrying case, etc.

Market Value

TFN GP200 The series significantly improves optical cable maintenance efficiency and reduces operation and maintenance costs with its efficient, non-destructive and precise detection capabilities. It is the preferred tool for communication engineering units, operators and maintenance teams to improve operating standards and response speed.