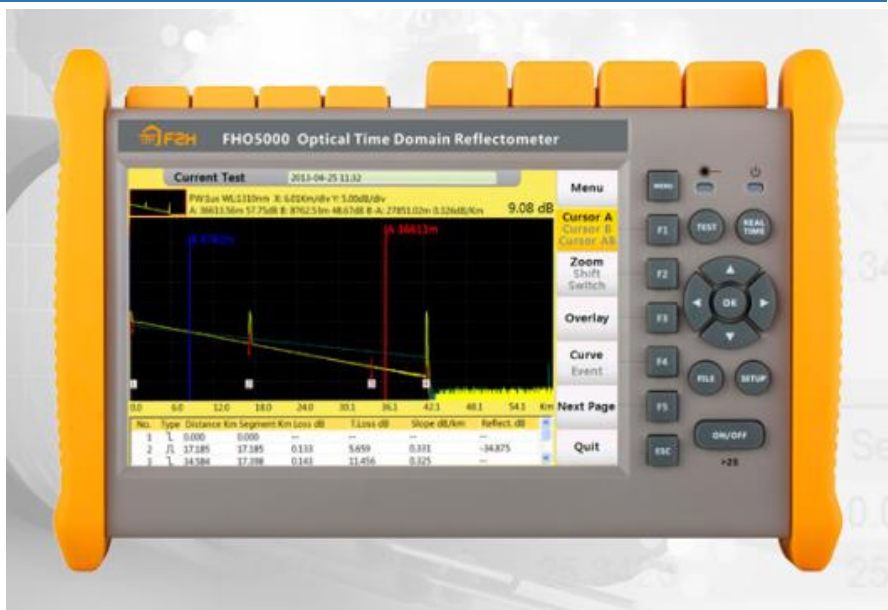


## OTDR FH5000 – TRI-WAVELENGTH -1310/1550/1625nm- 40/38/38 dB



### DESCRIPCION

Zona muerta de medición 1M/4M  
Distancia 4M/240Km – Modulo VFL

### MODELO

F2H-FHO5000-T40F

### CODIGO WT

4273108

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# 1 - CARACTERISTICAS

## FHO5000 Series OTDR

### Optical Time Domain Reflectometer



FHO5000 Series Optical Time Domain Reflectometer (OTDR) is an intelligent meter of new generation for the detection of fiber communications systems.

With the popularization of optical network construction in cities and countrysides, the measurement of optical network become short and disperse; FHO5000 is specially designed for that kind of application. It's economic, having outstanding performance.

FHO5000 is manufactured with patience and carefulness, following the national standard to combine the rich experience and modern

technology, subject to stringent mechanical, electronic and optical testing and quality assurance. In the other way, the new design makes FHO5000 more smart and compact and multi-purpose.

Whether you want to detect link layer in the construction and installation of optical network or proceed efficient maintenance and trouble shooting, FHO5000 can be your best assistant.

### Features

- Integrated design, smart and rugged
- IP65 protection level, outdoor enhanced
- 7-inch anti-reflection LCD screen
- PON online test module (1625nm) is optional
- MMF test module (850/1300nm) is optional
- Support multi-language display and input

### Applications

- FTTX test with PON networks
- CATV network testing
- Access network testing
- LAN network testing
- Metro network testing
- Lab and Factory testing
- Live fiber troubleshooting



## 2 – PARAMETROS TECNICOS

Type	Testing Wavelength (MM: $\pm 20\text{nm}$ , SM: $\pm 10\text{nm}$ )	Dynamic Range (dB)	Event/Attenuation Dead-zone (m)
FHO5000-M21	850/1300	19/21	0.8/4
FHO5000-MD21	850/1300 1310/1550	19/21 35/33	0.8/4 1/4
FHO5000-MD22	850/1300 1310/1550	19/21 40/38	0.8/4 1/4
FHO5000-D26	1310/1550	26/24	0.8/4
FHO5000-D32	1310/1550	32/30	0.8/4
FHO5000-D35	1310/1550	35/33	0.8/4
FHO5000-D40	1310/1550	40/38	1/4
FHO5000-D43	1310/1550	43/41	1/5
FHO5000-D45	1310/1550	45/43	1/5
FHO5000-T40F	1310/1550/1625	40/38/38	1/4
FHO5000-T43F	1310/1550/1625	43/41/41	1/5
FHO5000-T45F	1310/1550/1625	45/43/43	1/5
FHO5000-TC35F	1310/1550/1650	35/33/31	0.8/4
FHO5000-TP35	1310/1490/1550	35/33/33	0.8/4



## 3 – MODULOS DISPONIBLES

### FHO5000 Series OTDR

#### Optical Time Domain Reflectometer



#### Ready for all kinds of environment

FHO5000 Series is specially designed for tough outdoor jobs. IP65 protection level, lightweight, easy operation, low-reflection LCD and more than 12 hours working period make it perfect in field testing. Meanwhile, optional PCB board with water-proof coating helps FHO5000 series OTDR get better protection performance.

#### What you need is all-in-one!

FHO5000 Series is a highly integrated platform that features with four module slots, with a large 7-inch color screen (with a touchscreen option), a high-capacity Lithium-Ion battery, an optional microscope (through universal serial bus [USB] port), and built-in optical test functions, such as PON test module, visual fault locator (VFL), optional power meter and laser source, making it qualified in the installation, turn-up, and maintenance of FTTx/Access optical networks.

#### Main Functions

##### FLM (Fiber link measurement)

FLM Test (Fiber link Measurement), also known as "Optical Eye", uses multiple pulse width acquisitions and advanced algorithms to quickly characterize the fiber under test and display the optical events applying intuitive symbols.

##### VFL (visual fault locator)

The VFL, available as a standard module in FHO5000 Series offers built-in 650nm visual fault location on a FC/UPC connector

##### PON ONLINE TEST

FHO5000 Series OTDR uses 1625nm wavelength to scan and analyze the access point, and proceed online testing with optical filter and will not disturb the service.

##### PM (power meter)

FHO5000 Series comes with optional built-in power meters that let technicians easily verify the presence of a signal.

##### LS (laser source)

FHO5000 Series comes with optional built-in laser source through OTDR1 Port that let technicians easily verify the total loss of the local network with a power meter.

##### FM (fiber microscope)

The optional fiber inspection probe facilitates the inspect before the connection. FHO5000 Series offers this capability through a USB port connection, which allows quick and easy inspection of connector end faces for contamination and also enables it capture and store the image.

## 4 - ESPECIFICACIONES

<b>Dimension</b>	253×168×73.6mm   1.5kg(battery included)
<b>Display</b>	7-inch TFT-LCD with LED backlight (touch screen function is optional)
<b>Interface</b>	1×RJ45 port, 3×USB port(USB2.0,Type A USB×2, Type B USB×1)
<b>Power Supply</b>	10V(dc), 100V(ac) to 240V(ac), 50~60Hz
<b>Battery</b>	7.4V(dc)/4.4Ah lithium battery (with air traffic certification) Operating Time: 12 hours③, Telcordia GR-196-CORE Charging time: <4 hours (power off)
<b>Power Saving</b>	Backlight off: Disable/1 to 99minutes Auto shutdown: Disable/1 to 99minutes
<b>DataStorage</b>	Internal memory: 4GB (about 40,000 groups of curves)
<b>Language</b>	User selectable (English,Simplified Chinese, Traditional Chinese, French, Korean, Russian, Spanish and Portuguese -contact us for availability of others)
<b>Environmental Conditions</b>	Operating temperature and humidity: -10°C~+50°C, ≤95% (non-condensation) Storage temperature and humidity: -20°C~+75°C, ≤95% (non-condensation) Proof: IP65 (IEC 60529)
<b>Accessories</b>	Standard: Main unit, power adapter, Lithium battery, FC adapter, USB cord, User guide, CD disk, carrying case. Optional: SC/UPC adapter, ST/UPC adapter, LC/UPC adapter, Bare fiber adapter.



## 5 – PARAMETROS A TESTEAR

### Test parameter

<b>Pulse Width</b>	Single mode: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs, 5µs, 10µs, 20µs. Multi mode: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs
<b>Distance Range</b>	Single mode: 100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km, 240km Multi mode: 500m, 2km, 5km, 10km, 20km, 40km
<b>Sampling Resolution</b>	Minimum 5cm
<b>Sampling Point</b>	Maximum 128,000 points
<b>Linearity</b>	≤0.05dB/dB
<b>Scale Indication</b>	X axis: 4m~70m/div, Y axis: Minimum 0.09dB/div
<b>Distance Resolution</b>	0.01m
<b>Distance Accuracy</b>	±(1m+measuring distance×3×10 <sup>-4</sup> +sampling resolution) (excluding IOR uncertainty)
<b>Reflectance Accuracy</b>	Single mode: ±2dB, multi mode: ±4dB
<b>IOR Setting</b>	1.4000~1.7000, 0.0001 step
<b>Units</b>	km, miles, feet
<b>OTDR Trace Format</b>	Telcordia universal, SOR, issue 2 (SR-4731) OTDR: User selectable automatic or manual set-up
<b>Testing Modes</b>	Visual fault locator: Visible red light for fiber identification and troubleshooting Light source: Stabilized Light Source (CW, 270Hz, 1kHz, 2kHz output) Field microscope probe
<b>Fiber Event Analysis</b>	Auto or manual operation, displayed in table format User defined PASS/FAIL thresholds: -Reflective and non-reflective events: 0.01 to 1.99dB (0.01dB steps) -Reflective: 0.01 to 32dB (0.01dB steps) -Fiber end/break: 3 to 20dB (1dB steps)
<b>Other Functions</b>	Real time sweep: 1Hz Averaging modes: Timed (1 to 3600 sec.) Live Fiber detection: Verifies presence communication light in optical fiber Trace overlay and comparison