



Operation Manual

Power Meter

Annex to TSW800TP's Operation Manual

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Summary

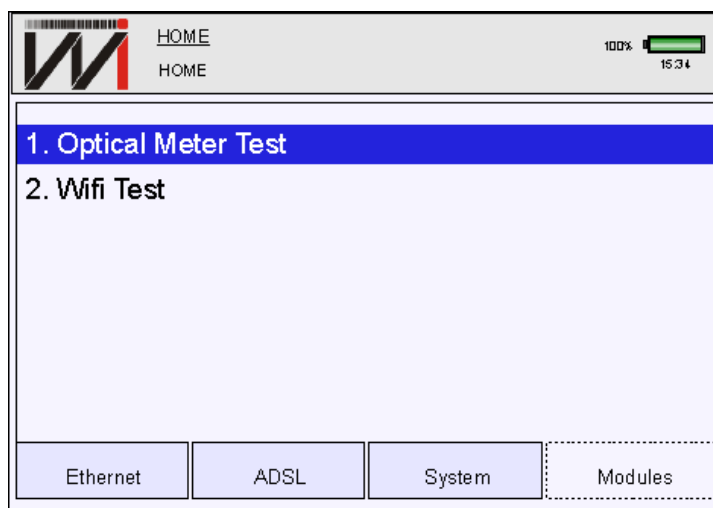
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1 - Introduction

There is a trend of installing optical fibers to the subscriber, or as close as possible, using a technology called FTTx. Therefore, there is a need for an equipment to test this technology, helping both maintenance and repair. The equipment measures the power of a traveling signal in an optical fiber at the three transmission windows (850, 1300 and 1550 nm) and displays the results in dBm or mW.

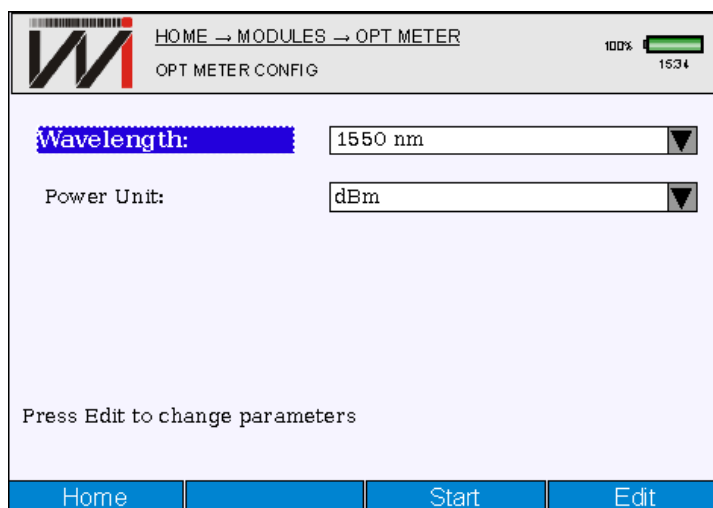
2 - Power Meter's Configuration

To access the installed modules, select the **Modules** tab at the initial screen, as seen below.



To initiate Power Meter, place the cursor over it using the \uparrow and \downarrow keys and press **START** or push the option number – 1 in this case.

Following, the configuration screen will be shown, in which the user should select the **Wavelength** and the **Power Unit**.



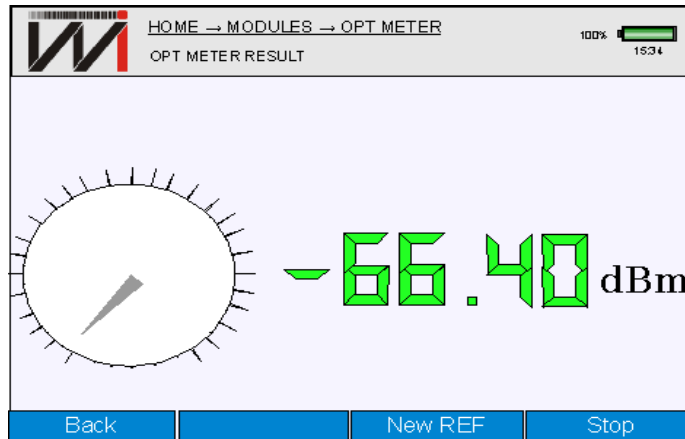
- Wavelength: The user can select 850, 1300 or 1550 nm.
- Power Unit: The user can select milliwatt (mW) or decibel (dB).

To change the values, select it and press **F4 <Edit>**. To accept the change, press **F4 <OK>**.

To return to the previous screen, push **F1 <Home>**.

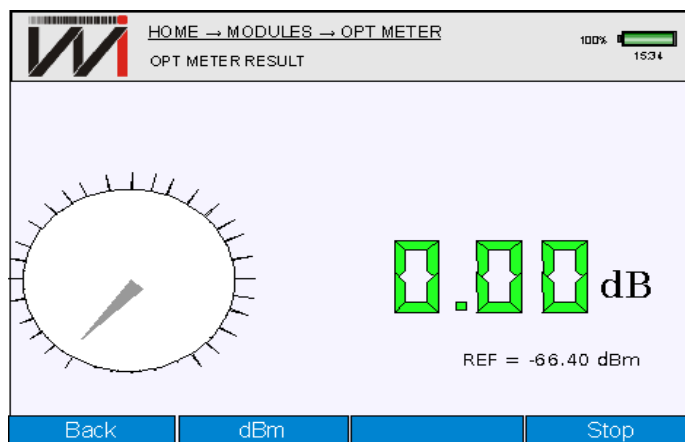
3 - Power Meter's Operation

To start the test, press **F3** <START> at the configuration screen shown at [Power Meter's Configuration](#). The following screen will be depicted.



The result is presented numerically and through a circular display, according to the unit chosen. To go back to configuration screen, press **F1** <Back>. To end the test and keep the results on the screen, push **F4** <Stop>.

To use the current value as reference, press **F3** <New REF>. After that, the equipment will show the results in dB, using the set reference as base for the calculation. The figure below shows an example.



The **F2** key will be used to switch between the measure with or without the set reference. When showing the value in dB, it will consider the configured power unit (**mW** or **dBm**). When showing the configured power unit, it will consider the reference (**REF**). In this case, the **F3** key can be used to set a new reference (**New REF**).