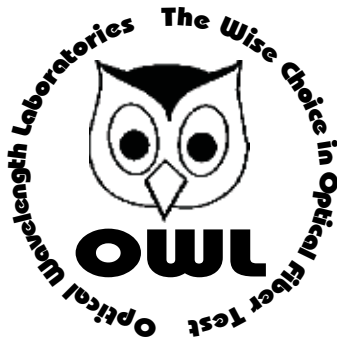


Procedure for Checking OWL Optical Power Meters For Proper Operation

Micro OWL 2 Series

Using WaveSource Singlemode Laser Sources



Optical Wavelength Laboratories

Procedure for Checking Micro OWL 2 Series Optical Power Meters For Proper Operation

USING OWL WAVESOURCE SERIES SINGLEMODE SOURCES

LIGHT SOURCE MODEL NUMBERS:

WS-SDxx
WS-VSDxx
WS-MDSDxx

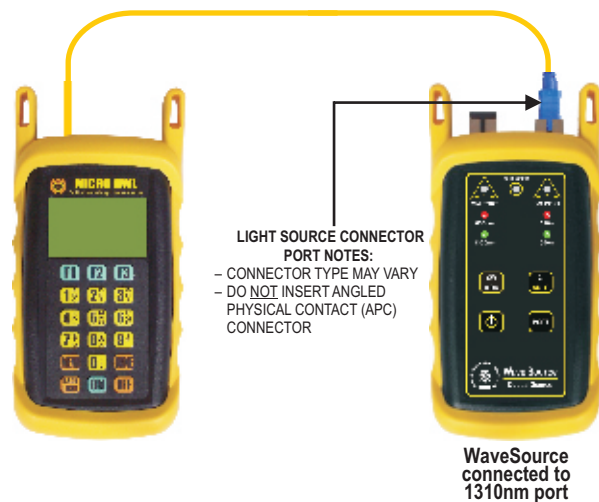
Checking Micro OWL 2 Series Optical Power Meters for Proper Operation

USING A WAVESOURCE SINGLEMODE LASER SOURCE

NOTE: thoroughly clean and inspect all patch cord connectors before making any connection.

STEP 1 - Connect Micro OWL 2 and WaveSource

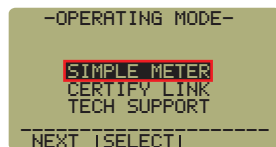
Connect the Micro OWL 2 and WaveSource together with a yellow singlemode patch cable as shown below.



STEP 2 - Power ON the Micro OWL 2

Press **ON** to power on the Micro OWL 2.

After a few seconds, the OPERATING MODE screen will appear on the Micro OWL 2 display, with SIMPLE METER being highlighted as shown at right.



STEP 3 - Enter SIMPLE METER

Press **F2** on the Micro OWL 2 to enter SIMPLE METER.

The display should read 'UNDER' as shown at right.

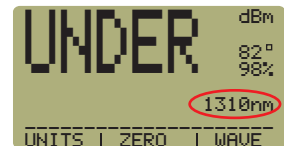
By default, the wavelength will be set to '850nm' and the measurement units will be set to 'dBm'.



STEP 4 - Set Micro OWL 2 to 1310nm

Press **F3 F3 F3** on the Micro OWL 2.

The wavelength display will show '1310nm' as shown at right.



STEP 5 - Set the WaveSource to 1310nm

Press **POWER** **PORT** to set the WaveSource to 1310nm.

The SM PORT indicator LED should now be red as shown at right.



STEP 6 - Check optical power

The power reading displayed on the Micro OWL 2 will probably not be exactly -10.00 dBm as shown at right, but should be fairly close.



Repeat this procedure for each additional patch cable that needs testing.

NOTE: the following steps are only required if the optical power reading on the Micro OWL 2 is **-11.00 dBm** or below.

STEP 7 - Replace the patch cable

The easiest way to troubleshoot low power levels is to try another patch cable. Over time, patch cables can wear out or become damaged the more they are used for optical loss testing. Replacing the patch cable usually fixes the problem.

STEP 8 - Clean patch cables and optical ports

If the problem still exists after patch cable replacement, there may be some debris, such as dust, dirt, or finger oil, that has collected on the connector endface or in the equipment optical ports.

Thoroughly clean and inspect the optical ports of the Micro OWL 2 and the Laser OWL, as well as the fiber connector endfaces, according to the brochures that have been included with this kit. Several cleaning cycles may be required.

If the power level is still below **-11.00 dBm**, even after a thorough cleaning and inspection and patch cable replacement, contact OWL technical support at 262-473-0643 for more information.