Test & Inspection

FlowScout® Downstream PON Power Meter (DPPM)

Quick Reference Guide

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 DPPM-00-1ENG Revision AA, 2025-01-15

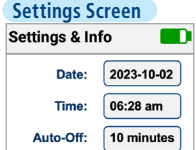
Battery & Power Status

State	Power Indicator	Fully Charged	¾ Charged	½ Charged	¼ Charged	<10% Charged
Not Charging / On	Power Icon (software)					
	Hard Power button (Off)					
Charging / On	Power Icon (software)					
	Hard Power Button					
Charging / Off	Power Icon (software)	N/A				
	Hard Power Button					

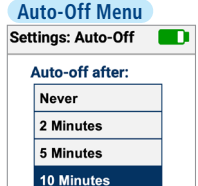
Configuring DPPM to Auto-Off

1. From the DPPM Home screen, touch Settings -  .
2. Locate and select the Auto-Off menu.
3. From the Auto-Off menu, select the desired power save option (2, 5, 10 minutes, Never).

Settings Screen



Auto-Off Menu



Controls and Interfaces

Hard Buttons

1. Power button - press and hold until button illuminates and release to turn on; press to turn off.
   Note: power button also serves as Charge Indicator, see "Battery & Power Status" on page 2.
2. Home button- from any screen, press to return to the Home screen.
3. Wavelength button - while in the Measurement screen, press to cycle through the available wavelengths.
   Note: When an DPPM is receiving a wavelength ID'd light, it automatically switches to the ID wavelengths.

Interfaces

4. Optical input - must be equipped with the appropriate adapter.
5. Display - large intuitive color touchscreen.
6. USB port for charging, transferring results, and firmware upgrade.

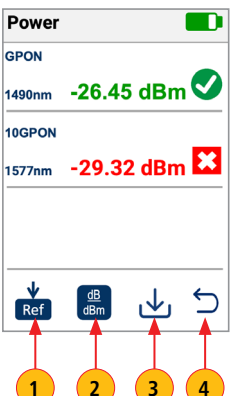
Home Screen Soft Buttons and Indicators

7. Measurements button- touch to go to the Measurements screen.
8. Settings button - touch to display Settings and page down to see Info screen, see "General Settings" on page 6.
9. Results button - touch to display Saved results screen.
10. Battery state indicator - for details see "Battery & Power Status" on page 2.

Measurement Screen Soft Buttons and Indicators

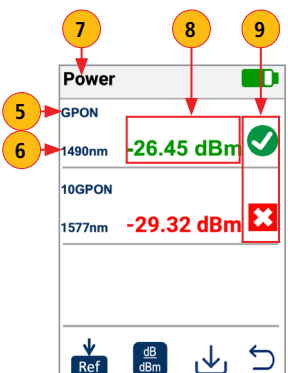
Soft Buttons Functionality

1. **Ref = Set Reference button:** allows the user to view current Reference(s) or set the new Reference(s).
   - Short press displays the current Reference Power in dBm for each detected or selected wavelength. After 3 seconds, display reverts to previously displayed power or loss
   - Long press stores the current power measurement(s) as new Reference(s) and displays Loss in dB relative to new Reference(s). Displayed Loss should be ~0.0 dB at each received wavelength after storing Reference.
2. **dB/dBm = Toggle Power/Loss button:** press to toggle the displayed measurements between insertion loss in dB and power in dBm.
3. **Save Results button:** press to save the displayed power/loss measurements in the DPPM internal memory. Saved test results are organized into user-defined folders – 'Projects'.
4. **Back button:** press to return to the Home screen.



Measurement Screen Soft Buttons and Indicators

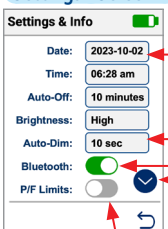
Indicators



5. **Detected Signal Type** - this field displays one of the following:
   - Wave ID - displayed if the DPPM is receiving a wavelength ID'd light.
   - GPON, Video, or 10GPON - displayed if the DPPM is detecting PON.
   - 270 Hz (330 Hz, 1 kHz, 2 kHz) - displayed if the DPPM is receiving a Tone signal.
   - Blank field indicates that DPPM is receiving CW light.
6. **Wavelength** - this field displays one of the following values:
   - Wave ID detected wavelength(s).
   - PON-detected wavelength(s)
   - User-selected wavelength (if paired with light source operating in CW or Tone).
7. **Screen Title** - indicates currently displayed measurements: Power or Loss
8. **Measurements values** - displays measured Power in dBm or Loss in dB
9. **Pass/Fail indicator** - displays pass/fail status for detected wavelength(s) if Pass/Fail Limits enabled and configured in the Settings. See "Configuring Pass/Fail Limits" on page 6
   - Passing result is indicated **by ✓ in Green circle**
   - Failing result is indicated by **X in Red box**
   - Blank field indicates that pass/fail is not evaluated; Pass/Fail is not enabled in Settings.

General Settings

Settings - Screen 1



Touch a Setting to edit

Enable/Disable Bluetooth

Touch to scroll down and display Info

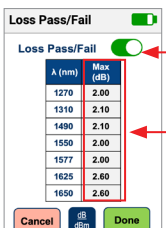
Touch to display Power/Loss Pass/Fail limits screen

Settings - Screen 2

Device Information

Touch to display Home screen

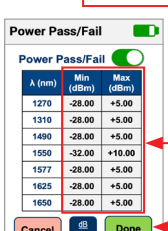
Configuring Pass/Fail Limits



Enable/disable Power/ Loss Pass/Fail limits

Touch a Max field to edit Max value

Toggle between Power & Loss Pass/Fail



Touch a Min/Max field to edit Min/Max value

Save edits and return to previous screen

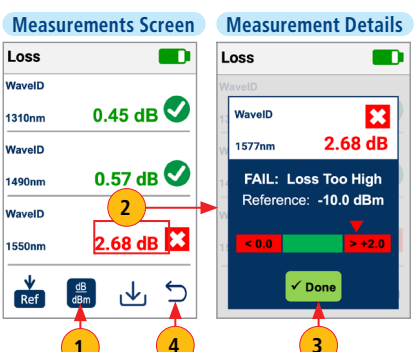
Discard edits and return to previous screen

Viewing Results

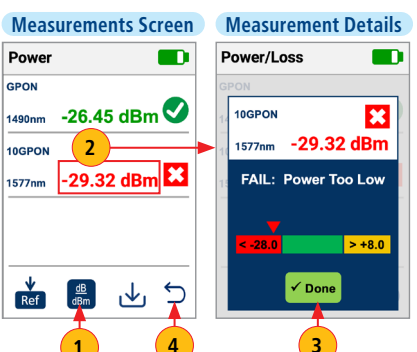
To View Results

1. From the Measurements screen, touch dB/dBm icon to toggle between Power (dBm) and Loss (dB).
2. Touch the desired measurement to display the Measurement Details to see more details.
3. In the Measurement Details screen, touch Done to return to Measurements screen.
4. Touch Back to display Home screen.

Viewing Results: Wave ID Detected

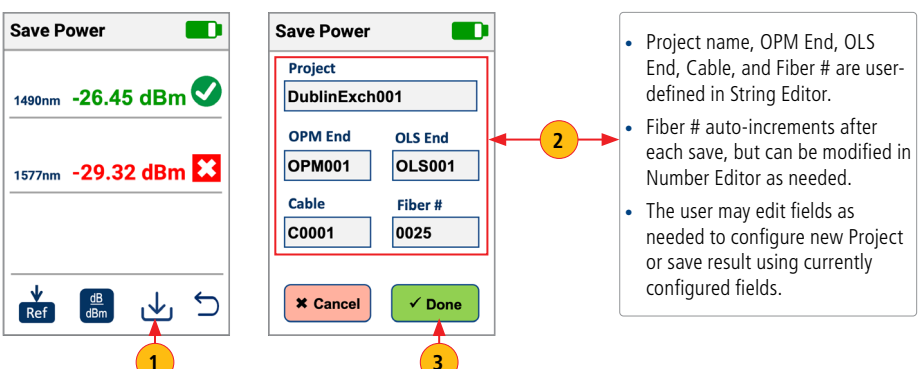


Viewing Results: GPON & XGS-PON Detected



To Save Results

1. From the Measurements screen, touch Save.
2. Define Project name, OPM End, OLS End, Cable, and Fiber # fields used to name saved results.
   - Touch the desired field to display the String/Number editor sub-screen.
   - Make edits using on-screen controls. Touch Done to save new name and return to the Save screen.
3. Touch Done to save results in the newly created Project.

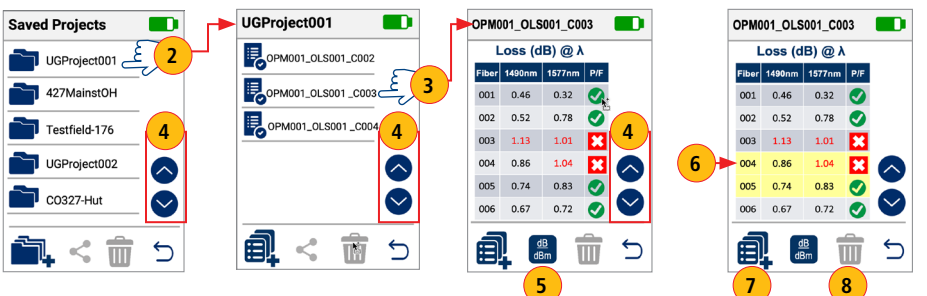


- Project name, OPM End, OLS End, Cable, and Fiber # are user-defined in String Editor.
- Fiber # auto-increments after each save, but can be modified in Number Editor as needed.
- The user may edit fields as needed to configure new Project or save result using currently configured fields.

Viewing or Deleting Saved Results

To View Saved Results

1. From the DPPM Home screen, touch Results to display the Saved Projects screen.
2. In the Saved Projects screen, touch the desired Project to display saved Results.
3. Touch the desired result to display Power/Loss measurements.
4. Scroll up/down to view additional Projects / Results / Measurements.
5. Touch dB/dBm button to toggle measurements between Power & Loss.



To Delete Saved Results

6. Touch and hold the desired saved result (Project / Result / Measurement) to select it for deletion.
7. Touch the Multi-select button to select multiple results, then touch the desired results (Projects / Results / Measurements).
8. Touch Delete.

File Management and Reporting Software

File Management system allows simple organization of power or insertion loss measurements into multiple files. Using the AFL's FlexReports Test Results Manager software and USB connection, test records are transferred to a PC for analyzing, generating professional test reports, and printing.

- Simple USB transfer of saved files.
- View test results
- Save test results on your PC/network
- Organize standard loss test data into bi-directional loss test data
- Create professional reports for your customers
- Add link length to loss data and select standard rules to generate network certification reports for your customers.

For more information, see FlexReports user's guide available on **www.AFLglobal.com.**

Thank you for choosing AFL Test & Inspection!