

OP831 Remote Operation

This describes using the OPL831 in remote control using the OP831.DLL for a bi-directional insertion loss measurement. The OP831 DLL exposes a function that switches the internal cross connect from A-B to B-A direction.

In manual operation that mode is used to measure the bi-directional insertion loss, this after the reference has been taken. In remote mode the display will reflect the ongoing measurement.

NOTE: If the reference is not taken in remote mode the display obviously will show an arbitrary high dB number in A-B or B-A mode. To avoid that either reference in both directions in remotely by using the "SetReference" function or switch off the display by putting the instrument into remote mode using the "RemoteMode" function.

Programming steps:

Example: Measure absolute power in both directions with instrument in remote mode.

RemoteMode(1) Set instrument into remote mode, this will blank the display and only reflect the selected wavelength and switch direction.

OperationMode(1) Set instrument to A-B direction.

<delay approx. 500msec> Allow switch and power meter to settle.

ReadPower(power) Measure and retrieve absolute power from the instrument. For insertion loss measurement subtract the power reading from the power reading taken during the reference cycle.

<Insert code here to store or process data>

OperationMode(2) Set instrument to B-A direction.

<delay approx. 500msec> Allow switch and power meter to settle.

ReadPower(power) Measure and retrieve absolute power from the instrument