



QUICK REFERENCE GUIDE

KI 9600 Series Optical Power Meter

KI 9800 Series Optical Light Source

Quick Reference Guide – KI 9600 Optical Power Meter

- To remove interchangeable connector adaptor, press the button on the front of the instrument and pull off adaptor.
- To defeat auto power-off, press and hold [POWER] for 3 seconds during turn on. 'Perm' is displayed on the top right of the LCD.
- Low battery is indicated with a battery symbol.
- During instrument turn on:
 - to view all display segments, press and hold [λ ◀]
 - to turn buzzer off, press and hold [▶ λ]
 - to display firmware version, press and hold [HOLD]
 - to start Slow mode, press and hold [dB/dBm/mW Set Ref]
- To scroll wavelength, press [λ ◀] or [▶ λ].
- To toggle logarithmic/relative/linear display modes, press [dB/dBm/mW].
- To stop / start display update, press [HOLD].
- To set reference, press and hold [Set Ref] for more than 3 sec. When in reference mode, the reference value is shown on the left hand side of the display.
- To display max min recorded power, press and hold [Max Min]. To re-set this function, press [Max Min].
- When multi-fibre ID tone is detected by a power meter, a buzzer will sound and the corresponding fiber ID number will be displayed. This function is disabled in SlowMode,
- When a standard tone is detected (eg 270 Hz, 1 KHz, 2 KHz), a buzzer will sound and the corresponding modulation frequency will be displayed.
- If the meter detects a test tone higher than 200 Hz, the display will show the actual measured modulation frequency in kHz. This function is disabled in SlowMode.



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SlowMode:

- In SlowMode, the display will show average optical power of the modulated signal. All tone detection is disabled.
- To start SlowMode, press and hold [dB/dBm/mW Set Ref] while turning power meter on. “- tonE” will be displayed.
- To start SlowMode when power meter is already turned on, press and hold [$\lambda \blacktriangleleft$], then press [dB/dBm/mW Set Ref]. “- tonE” will be displayed.
- To start SlowMode when test tone detection is active, press [dB/dBm/mW Set Ref].
- While SlowMode is on, alternating “▶” and “B” symbols will be displayed.
- To exit SlowMode, press and hold [$\lambda \blacktriangleleft$], then press [dB/dBm/mW Set Ref].

Turning power meter off will end Slow Mode.

TamperLock Mode:

- While in TamperLock Mode, user is prevented from changing wavelength, dB/dBm/mW, Hold, min max and SlowMode settings.
- To start TamperLock Mode, press and hold [$\lambda \blacktriangleleft$], then press and hold [HOLD]. When display show “codE”, enter six key sequence. Triple beep will be heard and display will briefly show “LOut” to indicate completion.
- While TamperLock is active, “<<<” and “>>>” symbols will be displayed.
- If power meter had been locked while in dB R mode, press and hold [Set Ref] to set reference.
- To clear TamperLock, hold [$\lambda \blacktriangleleft$] and [HOLD] while turning power meter on. When display show “codE”, enter six key sequence. If the correct sequence had been entered, “PASS” will be displayed indicating that TamperLock had been cleared.
- In case where entered sequence was not correct, “FAIL x” will be displayed (where x is attempt count).

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- TamperLock will be cleared after three unsuccessful attempts.

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- To remove interchangeable connector adaptor, press the button on the front of the instrument and pull off adaptor.
- To defeat auto power-off, press and hold [POWER] for 3 seconds during turn on. 'Perm' is displayed on the top right of the LCD.
- Low battery is indicated with a battery symbol.
- During instrument turn on:
 - to view all display segments, press and hold [$\lambda \blacktriangleleft$].
 - to display firmware version, press and hold [LEVEL].
 - to turn buzzer off, press and hold [$\blacktriangleright \lambda$].
- To enable source emitter, press [$\lambda \blacktriangleleft$] or [$\blacktriangleright \lambda$] after turning on instrument. Operating wavelengths will be shown in the top corner on the right hand side and source power level on the left hand side. Do not enable a laser when there is no fibre attached to the optical output connector.
- To scroll wavelength, press [$\lambda \blacktriangleleft$] or [$\blacktriangleright \lambda$].

ToneMode:

- Modulation is active only while the source emitter is enabled. To select a modulation tone, press [MOD] to scroll through available settings.
- Press and hold [MOD], then press [$\lambda \blacktriangleleft$] to step down or [$\blacktriangleright \lambda$] to step up the modulation tone or fiber ID number.
- Press and hold [MOD], then press [$\lambda \blacktriangleleft$] for 3 seconds to turn off modulation.
- Press and hold [MOD], then press [$\blacktriangleright \lambda$] for 3 seconds to advance to ID12.
- To exit, press [MOD] for 3 seconds. Alternatively, press [POWER] while holding [MOD].

Laser Output Power Adjustment (not available on LED source)

- To decrease the laser output power, turn the laser 'on', then press [LEVEL].
- Press and hold [LEVEL], then press [$\lambda \blacktriangleleft$] to step down or [$\blacktriangleright \lambda$] to step up the output power.
- Press and hold [LEVEL], then press [$\lambda \blacktriangleleft$] for 3 seconds to set output power to the lowest level.



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- Press and hold [LEVEL], then press [▶λ] for 3 seconds to set output power to factory default. Alternatively, press [POWER].

AutoTest:

- To start AutoTest, press [POWER] then press [AUTO]. To end, press [AUTO] again or turn the instrument off.

TamperLock Mode:

- While in TamperLock Mode, user is prevented from changing wavelength and laser output power.
- Press [POWER], turn the emitter on, then press and hold [λ◀] while pressing [LEVEL] for 5 seconds. Display will show “codE”.
- Enter 6 key sequence using any keys except [POWER]. Triple beep and “LOut” on display will indicate completion.
- While TamperLock is active, “<<<” and “>>>” symbols will be displayed.
- To cancel your entry, press [POWER].

- To clear TamperLock Mode, press [POWER] while holding down [λ◀] and [LEVEL]. When display show “codE”, enter six key sequence.
- If the correct sequence had been entered, “PASS” will be displayed indicating that TamperLock had been cleared.
- In case where entered sequence was not correct, “FAIL x” will be displayed (where x is attempt count).
- TamperLock will be cleared after three unsuccessful attempts.

