

ML330 Light Meter Pod

Pod Series

Description

The Light Meter Pod is designed to work with PowerLab units (with Pod support), and MLT331 Light Meter Probe for monitoring light intensity. (0-200 klux) It is not intended for any clinical or diagnostic use.



System Compatibility

The Light Meter Pod connects to any PowerLab hardware units with Pod ports (8-pin DIN inputs). PowerLab and MacLab (except 4s, 8s and 16s) units without Pod ports require the FE305 Pod Expander.

The Light Meter Pod is supported by the following versions of ADInstruments software:

WINDOWS

- LabChart v6 or later
- Chart v4.2 or later
- Scope v3.6.11 or later

MACINTOSH

- LabChart v6 or later
- Chart v4 or later
- Scope v3.6.9 or later

Note: Earlier software versions do not support Pods.

Visit our website for information on operating system requirements.

Transducer Compatibility

The Light Meter Pod is recommended for operation with the MLT331 Light Meter probe.

Applications

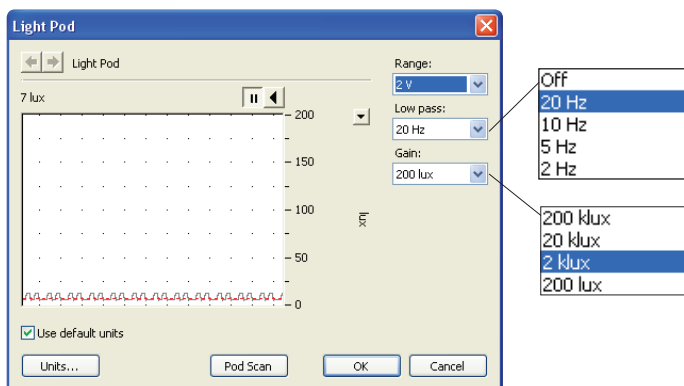
Monitoring low and high light levels and changes from daylight, room lights measuring light intensity through solutions.

Theory of Operation

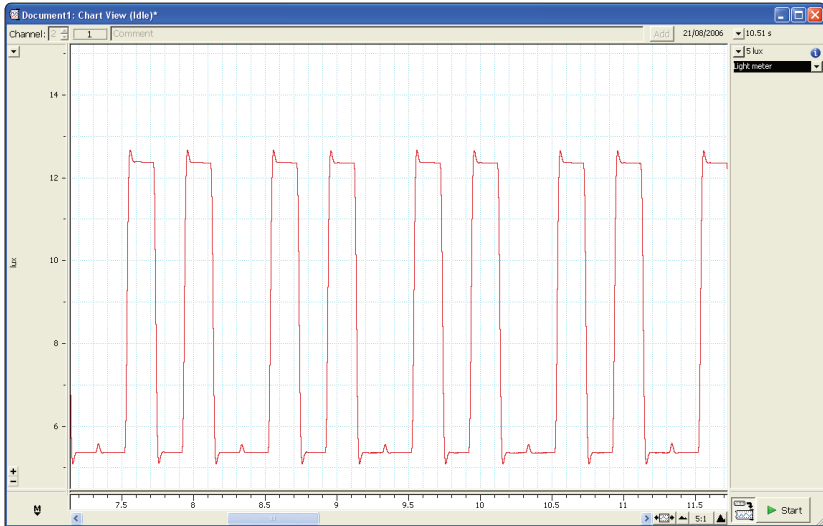
The Light Meter Pod measures the current across an illuminated photodiode and outputs an analog voltage DC signal proportional to the light intensity, lux (lx). The Pod has four Gain settings (200 lx - 200 klx) and incorporates four low pass filters to remove any high frequency interference from room lights if required. Select low pass filter “None” to record the flickers associated with fluorescent lights

Operating Instructions

Connect the Light Meter Probe to the BNC connector on the rear panel of the Light Meter Pod. Connect the 8-pin DIN cable from the rear panel of the Light Meter Pod to a PowerLab Pod port (or to one of the Pod ports of a Pod Expander connected to the PowerLab). Do not connect other devices such as Front-ends or Instruments to the BNC connector on the channel used by the Pod. When the LabChart software is activated the Light Meter Pod window (Figure 1) can be accessed from the Channel function pop-up menu.



ML330 Light Meter with the MLT331 Light Meter Probe Attached



Above: a recording of the LED light intensity changes from flickering PowerLab states light

Stacking and Unstacking Pods

Pods stack by clicking into place on top of each other. To separate stacked Pods, push the top Pod towards the back and then pull them apart from the back. See picture on right.



Caution

Read “Statement of Intended Use” on our website or in “Getting Started with PowerLab” before use.

Specifications

Lux Gain:	200 klux, 20 klux, 2 klux, 200 lux
Low-pass filter:	Off, 20 Hz, 10 Hz, 5 Hz, 2 Hz
Accuracy:	+/- 5 % (using MLT331 Light Meter probe) when used with an appropriate Pod range
Weight:	200 g
Input connector:	BNC

All specifications were tested at the time of printing and are subject to change.

Ordering Information:

ML330 Light Meter Pod

For use with: MLT331 Light Meter Probe