ANAHEIM SCIENTIFIC®

*Measuring the World*

# H110 Series Data Sheet

# Light, Solar, UVA **Meters**

## Description:

The H110 Series meters from Anaheim Scientific include options for measuring Solar (H115) and UVA lighting (H116). Lightweight, handheld and durable, the H110 Series meters will provide years of reliable service. The H110 Series features:

## Features:

- Convenient easy to read 3¾ digit display
- Real time data
- Data hold function
- Auto ranging
- Back light
- Auto power off and disable auto power off
- USB PC interface
- Data logging capacity up to 45,000 readings
- Low battery indicator
- Over load indicator
- Maximum/Minimum/Average record and elapse time
- Auto zero adjustment


H116
UVA Meter

## Applications:

- UV Curing
- Solar Power Evaluation
- Energy Audits
- Sun tanning beds

The H110 Series of light meters offers 2 models with different light sensors

| Model # | Sensor |
|---|---|
| H115 | Solar Power |
| H116 | UVA |

2 YEARS WARRANTY

CE

## General Specifications

| | |
|---|---|
| **Battery Life** | Approximately. 100 hours |
| **Display** | 3 ¾ LCD |
| **Sampling** | 4 times/second |
| **Power Off** | Manual by push button or auto shut off after approx. 30 minutes |
| **Data Output** | USB PC serial interface |
| **Datalogging Capacity** | Up to 45,000 reading |
| **Power** | 9v battery or AC to DC Adaptor (9v/300mA) |
| **Dimensions** | 130(L) x 56(W) x 38(H) mm |
| **Weight** | 250g |
| **Current Consumption** | ≤10 mA |
| **Sensor Length** | 1 meter |

## UVA Sensor (H116)

| | |
|---|---|
| **Range** | 40.0 μW/cm$^2$, 400 μW/cm$^2$, 20 mW/cm$^2$ |
| **Resolution** | 0.1 μW/cm$^2$, 1 μW/cm$^2$, 0.01 mW/cm$^2$ |
| **Accuracy** | ± (4%.F.S + 2dgt) |
| **Spectral Response** | 320 – 400 nm |
| **Peak Sensitivity Wavelength** | 365 nm |
| **Sensor** | Photo diode & UVA color correction filter |

## Solar Power Sensor (H115)

| | |
|---|---|
| **Measuring Range** | 40.00 W/m$^2$, 400.0 W/m$^2$, 2000 W/m$^2$ [13 Btu/(h*ft$^2$), 127 Btu/(h*ft$^2$), 634 Btu/(h*ft$^2$)] |
| **Resolution** | 0.01 W/m$^2$, 0.1 W/m$^2$, 1 W/m$^2$ [0.01 Btu/(h*ft$^2$), 0.1 Btu(h*ft$^2$), 1 Btu(h*ft$^2$)] |
| **Accuracy** | Typically within ± 10 W/m$^2$ [ ±3 Btu/(h*ft$^2$) ] or ±5%, whichever is greater in sunlight. Additional temperature induced error ±0.38 W/m$^2$ / ° C [ ±0.12 Btu/(h*ft$^2$)/ ° C] from 25° C |
| **Spectral Response** | 400 – 1100 nm |
| **Auto Measurement & Ranges** | 0.01 W/m$^2$ ~ 2000 W/m$^2$ [0.01 Btu/(h*ft$^2$) ~ 634 Btu/(h*ft$^2$)] |

### Includes:

- Meter
- Sensor
- Carrying Case
- DC Adaptor
- 9V Battery
- Mini USB to USB A Cable
- User Manual
- Installation CD

### This instrument conforms to:

- EN61326-1 (2006)
- JISC 1609:1993
- CNS 5519