

# DVM1300 – LUXMETER



## 1. Features

- 3 ½-digit LCD display with low-battery indication
- one single operating switch
- light pocket-sized model
- measures luminous intensity from 0.01 to 50.000lux
- 2000lux : reading x 10 // 50.000lux : reading x 100

## 2. Specifications

Display	: 1999 counts & low-battery indication
Low-Battery Indication	: "BAT" is displayed when the battery voltage drops below the operating level
Measurement Rate	: 1.5 readings/sec., nominal
Storage Temperature	: -10 to +60°C / 14 to 140°F with relative humidity < 80%
Power	: 1 x standard A23 battery of 12V
Dimensions Photo Detector	: 115 x 60 x 27mm
Dimensions Device	: 188 x 64.5 x 24.5mm
Weight	: 160g
Measuring Range	: 200, 2000, 20000lux (reading x 10) and 50000lux (reading x 100)
Overrange Indication	: "1" is displayed
Measuring Accuracy	: ±5% of rdg + 10 digits (<10000lux) ±10% of rdg + 10 digits (>10000lux)
Precision	: ±0.1%/°C
Photo Detector	: 1 silicon photo diode with filter

## 3. Front Panel Description

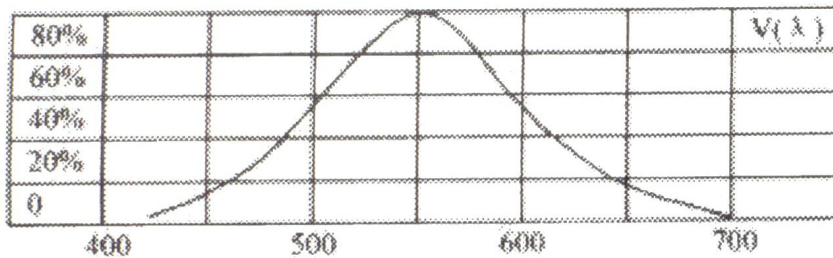
1. LCD display : 3 ½-digit LCD display with low-battery indication ("BAT")
2. Power/Function/range switch : Turns the power ON/OFF and selects the measurement function and the range
3. Photo detector : Long-life silicon photo diode is built in

## 4. Operating Instructions

1. Select the desired scale with the operating switch and select the desired range ("lux", "lux x 10" or "lux x 100").
2. Hold the photodetector at a horizontal angle to the light source to be measured.
3. Read the nominal measured value from the LCD display.
4. Overrange indication : if the instrument only display one "1" in the LCD, the input signal is too strong for the selected range.
5. Replace the photo detector when the measurement is completed.
6. The spectral sensitivity of this device is very similar to the ICE curve (International Commission on Illumination) depicted below on page 2 :

relative sensitivity  
relatieve gevoeligheid  
sensibilité relative

spectral sensitivity  
spectrale gevoeligheid  
sensibilité spectrale



Wavelength (Nm)  
Golflengte (Nm)  
Longueur d'onde (nm)

7. recommended illumination : see table below

ENGLISH	NEDERLANDS	FRANCAIS	LUX
<b>At the Office</b>	<b>Op kantoor</b>	<b>Au bureau</b>	
conference room, reception area	vergaderzaal, receptie, ,	salle de réunion, la réception,	200 – 750
clerical work	administratief werk	activités administratives	700 – 1500
typing	typist	dactylo	1000 – 2000
<b>In a Factory</b>	<b>In een fabriek</b>	<b>A l'usine</b>	
packing work	inpakwerk	emballage	150 – 300
production lines	bandwerk	travail à la chaîne	300 – 750
inspection work	inspectiewerk	travail d'inspection	750 – 1500
electronic parts assembly line	montageband voor elektronische onderdelen	chaîne de montage pour composants électroniques	1500 – 3000
<b>In a Hotel</b>	<b>In een hotel</b>	<b>Dans un hôtel</b>	
public room, cloakroom	vergaderruimte, vestiaire	salle de réunion, vestiaire	100 – 200
reception	receptie	réception	200 – 1000
<b>Store</b>	<b>In een winkel</b>	<b>Dans un magasin</b>	
staircase	trappenhuis	cage d'escalier	150 – 200
show window	etalage	étalage	750 - 1500
front of show window	voorkant van etalage	front de l'étalage	1500 – 3000
<b>Hospital</b>	<b>Ziekenhuis</b>	<b>A l'hôpital</b>	
sick room, warehouse	ziekenkamer, opslagplaats	infirmierie, entrepôt	100 - 200
operating room	operatiezaal	salle d'opération	300 – 750
<b>School</b>	<b>Op school</b>	<b>A l'école</b>	
auditorium, gymnasium	auditorium, turnzaal	auditorium, salle de gym	100 – 300
classroom	leslokaal	classe	200 – 750
library, laboratory	laboratorium, bibliotheek	laboratoire, bibliothèque	500 - 1500

## 5. Battery Replacement

The battery should be replaced when "BAT" appears on the display. Remove the screws at the back of the device, open the battery compartment, replace the old battery (A23 battery or equivalent, 12V) and close the compartment again.

**Remark : The contents and specifications of this manual can be subject to change without prior notice**