

## VELSEC 765 - Replaces 4 separate instruments



- **Ultra Violet (UV) level**
- **Visible Light (Lux or Foot-candles)**
- **% Relative Humidity**
- **Dew point**
- **Temperature (°C or °F)**
- **Sized like a small mobile phone**
- **Easy one handed operation**
- **Large, easy to read display**
- **Maximum & minimum with time**
- **Strong metal housing and supplied in carry case**
- **Optional data logging version available**

### SPECIFICATIONS

Method of radiation detection	Twin silicon photodiodes connected to single chip microprocessor	
Visible wavelength range	400-700nm (CIE response). No correction required for different light sources	
Visible power range	0.1 - 200,000 Lux (0.1 – 20,000 Foot-candles)	
UV wavelength range	300-400 nM	
UV power range	2 -10,000 mW/sqM	
UV proportion range	0 - 10,000 mW/Lumen	
RH sensor	Capacitive film type	
RH range	0-99%RH	
Display resolution	Lux: 0.1 up to 100 then 1 UV: 0.1 up to 100 then 1 Temperature: 0.1° C or ° F	Foot-candles: 0.1 up to 100 then 1 Proportion of UV: 1 mW/Lumen RH: 0.1
Accuracy	Light: 5% ± 1 displayed digit Temperature: ± 0.5° C (± 0.9° F)	UV: 15% ± 1 displayed digit RH: ± 3.5% between 10-90%RH otherwise 5%
Angular response (Light & UV)	Cosine	
Readout	128 x 64 OLED Display with automatic brightness control.	
Data logging time intervals (optional)	10 secs (8 days), 1 minute ( 50 days) , 10 minutes (500 days), 1 hour (8 years)	
Data logging storage capacity (optional)	Over 73,000 readings of all 4 parameters	
Computer Interface	USB	
Date function	Display as day-month-year or month-day-year. Fully Year 2000 compliant	
Batteries	4 off AAA NiMh rechargeable type	
Battery Life	Approx 30 Hours normal use or 120,000 log readings (logging option)	
External Power Supply	5-6 V DC, 500mA USB	
Operating Temperature	0-60°	
Dimensions	170 x 60 x 15mm 6.7 x 2.4 x 0.6 inches Including RH/Temperature probe	
Weight	240g (8.5 oz) with batteries.	



The Novatron Lux Meter is designed to give light level readings up to 50,000 lux. It has a sensor connected to the meter by one metre of coiled lead (when extended). This allows light measurements to be made away from the subject area, thereby minimising errors due to shadow, etc.

**Technical Specifications:**

Measuring:           0 - 1999 lux   – resolution 1 lux  
                      2000 - 19999 lux – resolution 10 lux  
                      20000 - 50000 lux – resolution 100 lux

Accuracy (typical at 23°C ±5°): ±10% of reading + 2 digits  
(accuracy tested by a standard parallel light tungsten lamp 2856K)

Battery life:                 150-200 hours (continuous use based on 2mA consumption, 9V PP3)

Sampling time:             0.4 second

Operating temperature:   0 – 50°C

Operating humidity:       0 – 80% RH (no condensing)

Dimensions:               110mm (L) x 75mm (w) x 25mm (d)

Weight:                     160g.

**Correction Factors:**

Mercury Lamp               x 1.05

Fluorescent Lamp          x 1.0

Incandescent Lamp         x 1.0

Daylight                    x 1.0

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