

# **NOVATRON** LUX & UV DATA LOGGER



## **VELSEC 764 - 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**
- **Optional data logging**
- **Selected by the Design Council as a Millennium Product**



### **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 - 50,000 mW/sqM	
UV proportion range	0 - 10,000 mW/Lumen	
RH sensor	Capacitive film type	
RH range	0-100%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: ± 2.5%
Angular response (Light & UV)	Cosine	
Readout	8 line graphical Liquid Crystal Display with automatic backlight	
Data logging time intervals	10 secs (30 hours), 1 minute (7½ days) , 10 minutes (75 days), 1 hour (454 days)	
Data logging storage capacity	10,900 readings of all 4 parameters	
Storage resolution for logged data	Light & UV: 0.1% of saved value. Temperature: 0.5°C Humidity: 0.5%RH	
Computer Interface	IrDA compatible wireless infrared link	
Date function	Display as day-month-year or month-day-year. Fully Year 2000 compliant	
Batteries	2 off alkaline AA type	
Battery Life	Approx 100 Hours continuous use or 12,000 readings taking 30 seconds each. Battery life will be less if the display backlight is used	
External Power Supply (If available)	4.0-5.2V DC, 100mA A suitable mains power supply can be provided as an optional extra (please specify mains voltage required).	
Operating Temperature	0-50°	
Dimensions	150 x 65 x 25mm 5.9 x 2.5 x 1 inches Including RH/Temperature probe	
Weight	165g (5.6 oz) with batteries.	

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## **NOVATRON LUX METER**



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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