

## LUX & UV DATA LOGGER



## ELSEC 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
- Optional data logging Strong metal housing

### 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 µW/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	128 x 64 LCD display with automatic brightness control.	
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	USB	
Date function	Display as day-month-year or month-day-year. Fully Year 2000 compliant	
Batteries	4 off alkaline AAA 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° C	
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.	

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