



Type 765 Environmental Monitor

A hand-sized instrument with an easy to read display, designed to be used by anyone, however technically literate, with little reference to an instruction manual.

- * Replaces 4 separate instruments
- * Easy one handed operation
- * Ultra Violet (UV) level
- * Visible light (Lux or Foot-candles)
- * % Relative Humidity
- * Dew point
- * Temperature (°C or °F)
- * Sized like a small mobile phone

Solid state sensors give accurate, drift free operation. The humidity sensor can be checked and recalibrated using an optional kit.

ELSEC Indoor Environmental Monitoring

Used in museums, art galleries and libraries throughout Australia as well as other environments, the ELSEC range of indoor environmental monitors and data loggers are the perfect choice for anyone concerned with conservation.

Anyone can take measurements straight out of the box. The appropriate button is pushed depending on the measurement required and the reading is taken.

The selected reading is displayed in large numbers, additional information (maximum and minimum readings, when they occurred etc) is shown in smaller characters. The large 8 line display allows the use of a menu system to select the more advanced functions, change units etc. This avoids difficult to remember button combinations.

Type 765C Environmental Monitor with data logging

Same as the 765, with added data logging. Over 10,000 readings of all four parameters can be automatically taken at selectable intervals (every 10 seconds to 1 hour). When logging the 764 goes to low power mode which enables it to be left taking readings for months at a time.

Type 7650

Similar to the 765 but without RH & temperature measurement providing a more affordable solution for those only interested in light & UV.

- * Ultra Violet (UV) level
- * Visible light (Lux or Foot-candles)

Type 775

A single instrument enables measurement of the three types of radiation that are of most interest: visible (Lux), thermal radiation and ultraviolet. The 775 also measures temperature in °C or °F.

- * Visible light (Lux / Foot-candles)
- * Thermal Radiation (IR)
- * Ultra Violet (UV)
- * Temperature (°C or °F)
- * Optional data logging (774C)



ELSEC specifications matrix

	Specifications	765	765C	775	775C	7650
Visible Wavelength Range	400-700nm (CIE Response. No correction required for different light sources)	X	X	X	X	X
Visible Power Range	0.1-200,000 Lux (01.-20,000 Foot-Candles)	X	X	X	X	X
UV Wavelength Range	300-400nm	X	X	X	X	X
UV Power Range	2-50,000mW/M ²	X	X	X	X	X
UV Proportion Range	0-10000 uW/Lumen	X	X	X	X	X
RH Sensor	Capacitive Film Type	X	X			
RH Range	0-100% RH	X	X			
Thermal Radiation Sensor	Bismuth/Antimony Thermopile with KBr window			X	X	
IR/Thermal Wavelength Range	350nm - ~uM			X	X	
Thermal Radiation Range	0-10000 W/M ²			X	X	
	Lux: 0.1 up to 100 then 1			X	X	
	Foot Candles: 0.1 up to 100 then 1			X	X	
	UV: 0.1 up to 100 then 1			X	X	
Display Resolution	Proportion of UV: 1uW/Lumen	X	X	X	X	X
	Temperature: 0.1°C or °F	X	X	X	X	
	IR:0.1 up to 100 then 1			X	X	
Accuracy	UV: 15%±1 Displayed digit	X	X	X	X	X
	Temperature:±0.5°C (±0.9°F)	X	X	X	X	
	RH: 3.5%	X	X			
Angular Response (Lux,UV & IR774)	Cosine	X	X	X	X	X
Readout	8 line Graphical LCD with automatic backlight	X	X	X	X	X
Data Logging Time Intervals (till full)	10s(30hrs), 10min(75days), 1hr(454days)		X		X	
Data Logging Storage Capacity	10,900 readings of all four parameters		X		X	
Computer Interface	USB		X		X	
Date Functions	Display as day-month-year or month-day-year.	X	X	X	X	X
Batteries	2 Alkaline AA Type	X	X	X	X	X
Battery Life	~ 100hrs cont.or 12,000 readings taken 30secs each	X	X	X	X	X
	Reduced battery life if backlight used	X	X	X	X	
External Power Supply (If Available)	4.0-5.2V DC, 100mA (extra cost)		X		X	
Operating Temperature	0-50°C	X	X	X	X	X
Dimensions	150x65x25mm Including IR/Temperature Probe	X	X	X	X	X
Weight	165g	X	X	X	X	X

Humidity Test Kit for models 765 / 765C

Kit to test the RH sensor in the 765 to ensure it is reading correctly. The 765 sensor does not require recalibration.

This kit can also be used to recalibrate the obsolete 764 humidity sensor. Comprises 2 test chambers, pure water and 2 RH standard chemicals to test RH at 33%RH and 75%RH.



Humidity Test Kit for models 765 / 765C