

# N2012

## Diligence EV Temperature Data Logger



Diligence EV temperature and humidity data loggers: compact, durable, lightweight and designed for use in many applications including the pharmaceutical and chemical industries and the monitoring of many other sensitive materials in transit or storage. The loggers are also used in building services, scientific experiments, production processes and ventilating and air conditioning systems.

### N2012 Features:-

- LCD display for temperature readings and alarm indication
- Internal sensor and up to 4 external sensors via the Diligence EV
- Measurement ranges, Internal sensor -40°C/-40°F to +70°C/+158°F
- External sensors -40°C/-40°F to +150°C/+302°F
- All models feature:-
- Tough, moulded cases, dust and waterproof to IP67 standards
- Large memory capacity of up to 16000 readings
- Ability to log over multiple periods
- Versatile and proven Evolution Windows™ software
- Single, multi-function button
- LED indicators to show active logging and alarm conditions, plus alarm warning
- Temperature system accuracy, suitable for food industry applications
- Multi-sensor models with Lumberg connector for Comark temperature probes - see pages 14/15 and the Comark probe leaflet, ref: C084.
- Long battery life
- Two year warranty

<b>Sensor Type</b>	Thermistor
<b>Measurement Range</b>	
Internal sensor	-40°C/-40°F to +70°C/+158°F
External Sensor	-40°C/-40°F to +150°C/+302°F
<b>Scales</b>	°C or°F
<b>Display Resolution</b>	0.1°
<b>System Accuracy</b>	
-25°C/-13°F to +50°C/+122°F	±0.5°C/1°F
-40°C/-40°F to +80°C/+176°F	±1°C/2°F
-40°C/-40°F to +150°C/+302°F	±2°C/4°F (typical)
<b>Memory</b>	16000 samples

<b>1 channel</b>	6000 samples
<b>2 channel</b>	5300 samples
<b>3 channel</b>	4000 samples
<b>4 channel</b>	3200 samples
<b>5 channel</b>	via infra-red interface
<b>Communications</b>	3 minutes for 10000 readings (typical)
<b>Download Time</b>	Programmable between 1 second and 99 hours
<b>Logging Frequency</b>	T90 =15 to 30 minutes in ambient air
<b>Internal Sensor Response Time</b>	-40°C/-40°F to +70°C/+158°F
<b>Ambient Storage</b>	Programmable date and time or manual start from instrument function button
<b>Logging start</b>	Windows based Evolution software requiring Windows 95, operating systems
<b>Software</b>	1 x AA size 3.6V replaceable lithium battery, part number A
<b>Battery</b>	Up to 5 years
<b>Battery Life</b>	ABS
<b>Case Material</b>	IP67, EN60529, IEC529
<b>Environmental Protection</b>	
<b>LED Indication</b>	alarm
<b>Red =</b>	logger active
<b>Green =</b>	
<b>Dimensions</b>	L 88mm/3.5ins (including fixing lug) W 80mm/3.1ins D 35mm