



N2013



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

N2013 features:-

- \* LCD display for temperature and humidity readings and alarm indication
- \* Internal temperature and external humidity sensors

Measurement ranges:

Temperature -20°C/-4°F to + 60°C/+140°F

Humidity 0 to 97% RH non condensing

All models feature:-

- \* Tough, moulded cases, dust and waterproof to IP67 standards
- \* Large memory capacity of up to 16, 000 readings
- \* Ability to log over multiple periods
- \* Compatibility with the versatile and proven Evolution Windows™ software
- \* Single, multi-function button
- \* LED indicators to show active logging and alarm conditions, plus audible alarm warning
- \* Temperature system accuracy, suitable for food industry applications
- \* Long battery life
- \* Two year warranty

Sensor Type  
Temperature

Thermistor

Measurement Range

|                               |   |
|-------------------------------|---|
| Temperature                   | -20°C/-4°F to +60°C/+140°F  |
| Humidity                      | 0 to 97% RH non condensing  |
| Scales                        | °C or °F  |
| Temperature                   | RH or DP  |
| Humidity                      |   |
| Display Resolution            | 0.1°  |
| Temperature                   | 0.1% RH   |
| Humidity                      |   |
| System Accuracy               |   |
| Temperature                   |   |
| -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)  |
| Humidity                      |   |
| -20°C/-4°F to +60°C/+140°F    | ±3% RH  |
| Memory 32K                    |   |
| 1 channel                     | 16000 samples   |
| 2 channels                    | 8000 samples  |
| Communications                | via infra-red interface   |
| Download Time                 | 3 minutes for 10, 000 readings (typical)  |
| Logging Frequency             | Programmable between 1 second and 99 hours  |
| Internal Sensor Response Time | T90 =15 to 30 minutes in ambient air  |
| Ambient Storage               | -40°C/-40°F to +70°C/+158°F   |
| Logging start                 | Programmable date and time or manual start from instrument multi-function button  |
| Software                      | Windows based Evolution software requiring Windows 95, 98 or NT operating systems |
| Battery                       | 1 x AA size 3.6V replaceable lithium battery, part number A17476                  |
| Battery Life                  | Up to 5 years   |
| Case Material                 | ABS   |
| Environmental Protection      | IP67, EN60529, IEC529   |

LED Indication

Red = alarm  
Green = logger active

Dimensions L 88mm/3.5ins (including fixing lug) W 80mm/3.1ins D 35mm/1.4ins