

# Comark EVt Series

## Single and Multi-Use Transport Temperature Loggers



A: EVt1 single-use transport logger. B: EVt2 multi-use transport and general applications logger

## For Data on the Move

Keeping temperature sensitive products, materials and ingredients within required temperature limits is vital. Customers demand it, consumers rely on it and regulations insist on it – but how to prove it?

Comark EVt temperature loggers are the answer. Low cost, easy to use EVt loggers are electronic, programmable and log data for permanent storage on a PC to provide the most cost effective transport logging solutions over any distance.

### Compact case

- Certified waterproof to IP67 standards
- Designed to meet transport standard BS EN 12830 TSD1

### Logs temperature of consignments from the originating warehouse to final destination

### Comprehensive range of information via display

- See essential data without downloading

### Alarm function

- LED gives instant alarm indication
- Time delay to prevent false alarms

### Dedicated software allows data to be saved to a PC

- Ideal for HACCP and other quality systems
- Professional version aids 21CFR Part 11 compliance



### EVt1 Single Use Logger

- Pre-programmed logging sequence
  - Logger ready for instant use
  - Can be re-programmed before use for alternative logging task
- Single button operation to start/stop logging
- Logging start options
  - Delayed logging start function with manual activation
  - Programmable logging start at selected date
- Battery life typically 12 months

### EVt2 Multi-Use Logger

- Ideal for multiple trips or where a separate log is required for outward and return deliveries. Software enables:
  - Download after each trip and reuse of logging program
  - Reprogramming to suit different applications
- Specification as EVt1 except battery life typically 24 months

Comark is the leading manufacturer and supplier of a wide range of electronic measurement instruments for temperature, humidity, pressure and pH.

Click on [www.comarkltd.com](http://www.comarkltd.com) for more information

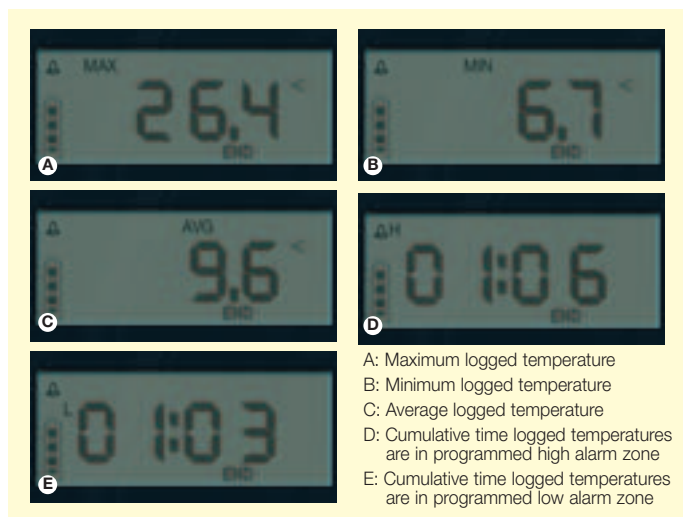
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### EVt DISPLAY

LCD display shows all essential information before, during and after logging. Automatic scroll function, available after logging has ended, enables the following data to be seen. Ideal for decision making before downloading or where this is not possible:



### EV SOFTWARE

There are two variants of the proven software package for programming, data retrieval and data storage. Both are compatible with Comark EV data loggers and the EVG Graphic Display Monitor.

#### EV Software – General use version

- Quick program function for faster instrument set up
- Extensive data presentation options in tabular or graphical form
- Selectable high and low alarm levels
- Selectable logging interval

#### EV Pro – Professional version

Specification as general use version plus:

- Enhanced security options to aid compliance with the pharmaceutical industry 21CFR Part 11 requirements
- Additional data analysis, including:
  - Mean kinetic temperature
  - Pasteurisation values

#### EVt Loggers with BioCote® Protection

BioCote® is a silver based anti-microbial agent that is impregnated into the instrument case during moulding. BioCote® effectively inhibits the function, growth and reproduction of a wide range of micro-organisms and its protection is increasingly accepted as part of HACCP, due diligence and health and safety procedures to reduce cross contamination. BioCote® protection lasts for the life of the instrument, because the agent is present throughout the case plastic and cannot rub off or be washed or leached out.

BioCote® active ingredients are registered with the US Environmental Protection Agency (EPA).

Although BioCote® inhibits the growth of micro-organisms on the instrument case, it does not protect individuals against such harmful organisms or remove the need to maintain the highest standards of personal and product hygiene and cleanliness.



### TECHNICAL SPECIFICATIONS

Sensor Type	Thermistor
Measurement Range	
EVt1	-20°C to +70°C, -4°F to +158°F
EVt2	-30°C to +70°C, -22°F to +158°F
Scales	°C, °F
Display Resolution -20°C to +70°C	0.1°
System Accuracy	±0.5°C/±0.9°F
Channels	Single internal sensor only
Memory	3000 samples (1 channel)
Communications	Via infra-red interface
Logging Frequency	Programmable between 1 second and 99 hours
Logging Start/Stop/LCD	Single multi-function button operation
Internal Sensor Response time	T90 = 15 to 30 minutes in ambient air
Ambient storage	As measurement range
Environmental Protection	IP67 BS EN 60529 IEC 529
Battery type	
EVt1	Non-replaceable 1x 3V Lithium Coin Cell
EVt2	1/2 AA Lithium
Battery life, based on a 15 minute log rate at +20°C/+68°F with alarms off	
EVt1	12 months
EVt2	24 months
Case Material	Food safe polycarbonate
LED Indication	Red = Alarm, Green = Logger active
Dimensions	
Length	88mm (including fixing lug)
Width	80mm
Depth	35mm
Weight	
EVt1	75g/2.65 oz
EVt2	77g/2.73 oz

### ORDER CODES AND ACCESSORIES

EVt1	Transport logger, single use, pre-programmed with logging task
EVt2	Transport logger, multi-trip
EVSW	EV software
EVSWPRO	Professional version of EV software
EVTCR	PC interface for programming loggers and downloading data
ADP55	USB to serial port adaptor

### WARRANTY

All Comark Instruments have a minimum one-year warranty unless otherwise stated. The warranty period for temperature probes is six months and all other probes and electrodes are unwarranted because the conditions of use are beyond our control.

The Comark warranty covers manufacturing defects and component failure and applies worldwide. The warranty does not affect your statutory rights.

In line with our policy of continuous development we reserve the right to alter any product specifications without notice.

All products are covered by our Quality Management System which is compliant with BS EN ISO 9001:2000 for the design, manufacture, supply, service, repair and recalibration of electronic measuring instruments and equipment.

Comark has an accredited UKAS calibration laboratory for temperature and humidity measurement and can offer full service and recalibration facilities.

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