

Temperature Data Logger with Built-In Printer

OM-VLT



OM-VLT shown smaller than actual size

- ✓ Monitors, Logs, Prints and Displays Temperature Data vs Time
- ✓ Menu Driven Programming via Front Panel Keys
- ✓ 290 Historical Temperature Readings—Data Can be Printed or Sent to PC on Request
- ✓ Real Time Temperature Printing—Three Printing Modes
- ✓ Integral Temperature Display Max/Min on Request
- ✓ Adjustable Hi/Lo Alarm Thresholds and Alarm Delay
- ✓ Local Audible/Visual Alarm Indication
- ✓ Alarm Relay for Remote Alarming Applications
- ✓ RS-232 Port for Exporting Real Time Data to PC—No Software Needed
- ✓ Low Battery, Chart Ending and No Sensor Indicators
- ✓ Extendable Remote Temperature Sensor

Model OM-VLT is a programmable temperature data logger, strip recorder and alarm device with integral digital display. The easy to follow menu driven programming is done via the front panel keys.

The unit records, saves and prints up to 290 temperature readings at predefined intervals. The OM-VLT produces an alarm when the temperature goes out of the defined range or after the temperature remains out of range for a certain period of time. The OM-VLT prints temperature data directly via the integral printer and can also send temperature data to an external PC. Communications with a PC is done by using Windows Hyperterminal software so no additional software is required. The OM-VLT can also send alarms to an external device via the built-in relay contact.

Specifications

Temperature Sensor: Solid state IC, 10 m (33') long sensor probe wire, 0.2" diameter

Temperature Measurement Range: -40 to 130°C (-40 to 266°F)

Temperature Measurement Accuracy: $\pm 1^{\circ}\text{C}$ ($\pm 1.8^{\circ}\text{F}$)

Temperature Writing and Storage Resolution: 0.1°C (0.2°F)

Sample Rate: Programmable between 1 and 90 minutes in 1 minute intervals

Memory: Data logger saves the last 290 measurements; logging starts as soon as the unit is turned on

Computer Interface: RS232: 9600 baud, 8 data bits, parity none, 1 stop bit, flow control none

LEDs: Power, low battery, out of paper, sensor, min, max

Alarms: High and low temperature, end of paper, no sensor; audible (internal buzzer)/visual (alarm LED)/normally open relay contact

Audible Alarm (Internal Buzzer): Some alarms trigger the internal alarm buzzer. The buzzer can be silenced by pressing EXIT on the front of the data logger or by connecting the optional remote buzzer silencer switch (OM-VLT-SK) which momentarily shorts the buzzer silencer contacts on the data logger. The alarm buzzer can also be enabled or disabled via the data logger front panel menu programming.

Temperature Alarm Operation: If the measured temperature goes outside the maximum or minimum temperature limits for an amount of time equal to the defined alarm delay period (if any), an alarm is sent – the internal buzzer sounds (if enabled), an alarm is sent to an external device via the alarm relay contact (if enabled) and the alarm LED lights.

Disconnected Temperature Sensor Alarm Operation: If the temperature sensor is disconnected the display shows the message nOS, the alarm LED lights and the internal buzzer sounds (if enabled).

End of Paper

Alarm Operation: If the printer paper runs out, the internal buzzer sounds (if enabled), an alarm is sent to an external device via the alarm relay contact (if enabled) and the out of paper LED lights.

Alarm Relay: 1 A, 12 Vac/Vdc

Alarm Delay Range: User selectable; no delay, 10 min, 30 min, 1 hr, 2 hrs

Printing Modes: There are three printing modes; full text report (small font), time and temperature (large font), graph format

Chart Speed Accuracy: ±1%

Time Accuracy: ±80 ppm @ 75°F (24°C)

Thermal Chart Paper

Dimensions: 2" wide x 131' long

Display: 4 character numeric LED

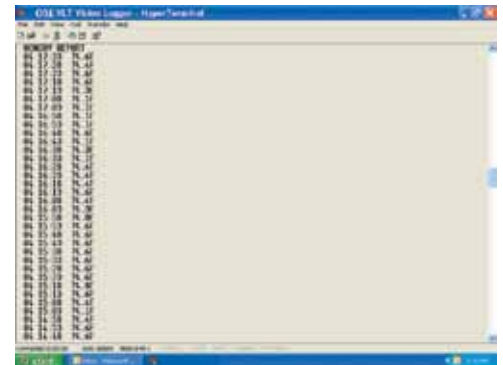
Power: 12 Vac/Vdc via included 115 Vac 50/60 Hz adaptor

Battery Backup: 9 V alkaline for up to 60 hours operation

Clock Battery: CR2032 coin cell, used for saving logged data and configuration settings and for running the real-time clock

Operating Environment: -18 to 65°C (0 to 150°F), 0 to 95% RH non-condensing

Storage Temperature: -40 to 65°C (-40 to 150°F)



Download data using Windows Hyperterminal - no extra software is required.

Mounting: Vertical or horizontal, free standing, wall or panel mount (wall mount bracket included)

Dimensions: 209 W x 135 H x 69 mm D (8.2 x 5.3 x 2.7")

Weight: 1.3 kg (2.9 lbs) including chart paper



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

To Order

Model No.	Description
OM-VLT	Temperature data logger with printer
OM-VLT-SENSOR	Spare temperature sensor, 10 m (33')
OM-VLT-PAPER	Replacement paper roll, 40 m (131')
OM-VLT-115-ADAPTOR	115 Vac/12 Vdc power adaptor
OM-VLT-230-ADAPTOR	230 Vac/12 Vdc power adaptor
OM-VLT-BAT	3.6 V lithium battery
OM-VLT-BRKT	Wall mounting bracket
OM-VLT-PACO	Paper compartment cover
OM-VLT-BACO	Battery compartment cover
OM-VLT-SK	Alarm buzzer remote silencer kit
OM-VLT-CABLE10H	Temperature sensor extension cable, 3 m (10')
OM-VLT-CABLE33H	Temperature sensor extension cable, 10 m (33')
OM-VLT-PR	24 Vdc/ 12 Vdc power reducer
OM-61-RS232-DB9	1.8 m (6') RS232 cable DB9F termination

OM-VLT data loggers include 2 thermal chart paper rolls, wall mounting bracket, paper compartment cover, battery compartment cover, 3.6 V lithium battery, 115Vac/12 Vdc power adaptor, remote temperature sensor 10 m (33' long) and operator's manual.

Ordering Example: OM-VLT temperature data logger with printer and OCW-1, OMEGACARESM extends standard 1-year warranty to a total of 2 years.