





OF OMEGA® User's Guide



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MANCHESTER, UK

OM-EL-ENVIROPAD-TC Thermometer With Built-in Data Logging and Graphing



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errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used, for human applications.

OM-EL-ENVIROPAD-TC

Thermometer with built-in Data Logging & Graphing

ORDERING INFORMATION

Thermometer with **OM-EL-ENVIROPAD-TC** Built-in Data Logging & Graphing

FEATURES

- User selectable temperature °C or °F
- · Supplied with K-type probe
- · On-screen graphing
- Two modes: data logging or spot measurement
- · User selectable high & low alarms
- 2.8" color touch screen
- Compatible with thermocouples type J, K, N, & T via mini thermocouple connection
- Downloadable saved data via USB and viewed using Excel or similar spreadsheet packages
- Internal rechargeable lithium polymer battery
- · Date & time function
- Audible alarm
- · Removable protective boot for increased durability



This robust easy to use handheld device takes and records temperature readings via the attached K-type probe supplied with the unit. A large touch screen, color display indicates temperature, maximum and minimum readings and will produce a graph of the data.

It has two functions - Data Logging and Spot Measurement;

- 1. When in Data Logging mode, it can be set up and left to take temperature readings at pre-determined intervals for a desired length of time. All readings are saved to a file with a date and time stamp in CSV format for up to 65,536 readings.
- 2. When in Spot Measurement mode, the unit can be used as a thermometer to capture one-off temperature readings displayed on screen. This can be repeated for up to 65,536 readings per file.

Data can be downloaded to PC via a USB connection and opened with Microsoft Excel[®].

The unit is compatible with any J, K, N and T type thermocouple probes. The protective boot can be removed for cleaning and is dishwasher safe.

Specifications	Minimum	Typical	Maximum	Unit
USB supply voltage	4.5v	-	5.5v	V d.c.
Internal resolution	-	0.1	-	°C
Data recording capacity (per recording)		-	65536	readings
Hand unit operating temperature range	0 (+32)	-	+50 (+122)	°C (°F)
Operating time (on a single charge)	8	24*	**	hrs
Displayable temperature (dependant on probe)	-100	-80 to +1200	+9999	°C
Storage capacity	-	-	100	files

^{*} Typical use: 1min recording rate & power-save

Warning - Do not exceed operating temperatures

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^{**} Depends on recording settings

OM-EL-ENVIROPAD-TC

Thermometer with Built-in Data Logging & Graphing

HARDWARE

UNIT

- · Battery: rechargeable via USB connection
- · LCD: color TFT touch-screen
- Integrated memory for logged data
- Single front-panel push-button used for power-switch. Single press=ON, press & hold=OFF.
- 1x thermocouple connector (top of unit)
- 1x micro USB Type B (bottom of unit) for connection of unit to PC via USB cable supplied.

PROBE

- Thermocouple probe: class 1 tolerance, 316 stainless steel probe
- Sealed to IP66
- Themocouple Type: K

Specifications	Minimum	Typical	Maximum	Unit
Probe Temperature Accuracy	-	+/- 1.5	+	°C
Probe Temperature Range*	-180	-	+1300	°C
Handle Temperature Range	-10	-	+125	°C

^{*} Short term measurement

N.B. Any of the above hardware specifications may change without prior warning if new/suitable alternatives become available.

DIMENSIONS

All dimensions in mm (inches)







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WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC., warrents this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY RETURNS**, please have the following information available BEFORE contacting OMEGA.

- 1. Purchase order number which the product was PURCHASED,
- 2. Model and serial number of the product under warranty, and
- 3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY RETURNS**, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA.

- 1. Purchase Order number to cover the COST of the repair.
- 2. Model and serial number of the product and
- 3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an iimprovement is possible. This affords customers the latest technoogy and engineering.

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