NEWPORT ELECTRONICS, INC. warrants this unit to be free of defects in materials and workmanship for a period of on (1) year from date of purchase. In addition to NEWPORTs standard warranty period, NEWPORT ELECTRONICS with extend the warranty period for one (1) additional year if the warranty card enclosed with each instrument is returned to

NEWPORT. If the unit should malfunction, it must be returned to the factory for evaluation. NEWPORT's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by NEWPORT, if the unit is found to be defective it will be repaired or replaced at no charge. NEWPORT'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 being damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misapplication or other operating conditions outside of NEWPORT's control. Components which wear are not warranted, including but not limited to contact points fuses and triacs.

containes outside of NEWPORT sonito. Components which wear are not warranted, including but not immed to contact points, fuses, and triacs.

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CONDITIONS: Equipment sold by NEWPORT is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity, medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical applications or used on humans. Should a

Return Requests/Inquiries

Direct all warranty and repair requests/inquiries to the NEWPORT Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO NEWPORT, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM NEWPORT'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 prever breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting tollowing into NEWPORT:

- . P.O. number under which the product was PURCHASED,
- Model and serial number of the product under

FOR **NON-WARRANTY** REPAIRS, consult NEWPORT for current repair charges. Have the following information available BEFORE contactin NEWPORT:

- 1. P.O. number to cover the COST of the repair 2. Model and serial number of product, and

Repair instructions and/or specific problems relative to the product.

NEWPORT's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our sustomers the latest in technology and engineering.

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M2510/N/0701

Weighs only 2 ounces with battery

nze in other programs

to view plots, make prints, and export data for Windows/DOS user friendly OMEGA® Software

dataloggers

- External RTD sensor for temperature
 - PC or Macintosh compatible
 - Single or Wrap-around recording
 - Programmable alarms
- Average, minimum or maximum recording
 - 4 different launch modes
- Over 2 years operation on replaceable battery
 - Nonvolatile EEPROM memory for record
- Record length from 4 hrs 29 min to over 2 years
- 16,192 records
 - Features

NOMAD" Datalogger

NOMAD™ **Datalogger OM-NOMAD-T OM-NOMAD-RH** Operator's Manual







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NOMAD™ Quick Start

Install "NOMAD" software:

DOS version: insert diskette in floppy drive. At the DOS prompt type A:\INSTALL and press enter. If floppy drive is B, then at DOS prompt type B:\INSTALL followed by enter.

Windows version: Before installation, all programs must be closed and ensure that terminant resident (TSR) programs are turned off. These programs have been found at times to conflict with the installation process. Insert diskette into floppy drive, from file manager choose File, Run. Type A:\SETUP and press enter. Use B:\SETUP if floppy is the B drive.

Macintosh version: insert diskette into floppy drive, drag the NOMAD Datalogger folder onto your hard drive.

To start NOMAD, open the Nomad Datalogger Folder, and doubleclick on the NOMAD icon.

Verify your computer **clock** is set to correct time, since NOMAD obtains its time stamp from your computer.

To start NOMAD for Windows, inside Windows click on the NOMAD Icon.

To start NOMAD in DOS, type CD:\NOMADOS and press return. Then type NOMAD and press return.

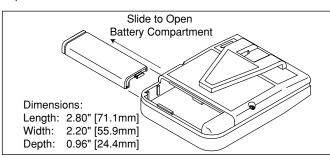
NOTE: Please review the on-line user manual for a complete description of all features. This is a text file included on the installation disk. File Name: manual.txt

This device is marked with the international hazard symbol. It is important to read extstyle extimportant information relating to safety and EMC.

Ordering Information

MODEL #	DESCRIPTION
OM-NOMAD-T-16/N	Temperature datalogger 16K memory (16,192 samples)
OM-NOMAD-RH-32/N	Temp/RH datalogger 32K memory (16,192 samples).
OM-NOMAD-RTD	External temp. sensor with 6ft cable NOTE: Not useable with OM-NOMAD-RH models
OM-NOMAD-CP9	RS-232 cable for IBM PC, 9 pin female D-sub. connector
OM-NOMAD-CP25	RS-232 cable for IBM PC, 25 pin female D-sub. connector
OM-NOMAD-CM	RS-232 cable for Macintosh
OM-NOMAD-WIN/N	Windows/DOS software, 3.5" disk
OM-NOMAD-MAC/N	Macintosh software
OM-NOMAD-BATT	Replacement battery

To place an order from the USA or Canada call: 1-800-NEWPORT®



Launching the NOMAD™ DATALOGGER

Attach the NOMAD to an available Serial port of your computer using your RS-232 cable purchased with your unit (see ordering block).

If you wish to use the external sensor with Temp dataloggers only, plug it in to the "Temp Probe" socket on the NOMAD.

From program manager select Nomad icon.

Cancel "about the datalogger" screen by keyboard return or select 'OK' button.

The NOMAD Datalogger screen will appear. Select logger sub-menu, "configure and launch datalogger".

NOTE: If NOMAD is not connected, an error message "Port is available, but no NOMAD was detected" will be displayed. Check hardware connections and select "COMPORT" under the "Setup" menu for alternate ports to test.

Once successful, you will be greeted by the "Launch datalogger" screen.

Follow your application requirements in choosing the appropriate menu item, using on-line help as needed.

NOMAD[™] Logger Specifications

Temperature:

Operating range with internal sensor: -10 to 70°C (14 to 158°F)

Measurement range with external sensor: -40 to 123°C (-40 to 253°F)

Accuracy: ±1.8°C using internal sensor

Electronics temperature coefficient of error using external sensor ±.025% Full Scale/°C

Resolution better than 0.9°C:

Sensor 1 K ohm, RTD alpha = 3750

Humidity:

Measurement range:

20 to 90% non-condensing Operating temperature range: 0-50°C

Measurement accuracy: ±5% RH @25°C

±0.3%RH/°C away from 25°C

Sensor: Bulk polymer resistive

RH response: 63% of step change in less than 5

minutes

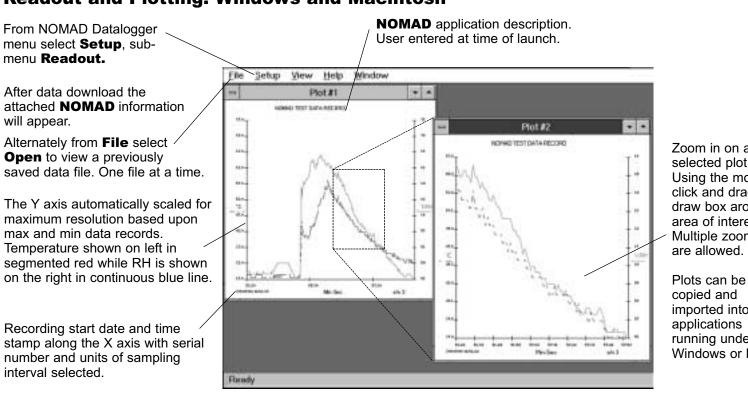
Measurement Interval:

Programmable: from 1 second to 3 hours EEPROM memory size: 16K data samples Battery: one 3.6 volt AA Lithium Cell operating

for more than 2 years

Launching the NOMAD™ DATALOGGER (MAC, DOS & Windows 3.1 and above) User entry Describe the Recording starts Stop sampling when NOMAD application, will immediately upon memory is full. Launch command. appear on print plot. Continuous recording most recent data available. Recording starts at time Launch the Datalogger set in entry box. Memo or Description NOMAD Serial # Factory Recording starts after Assigned. "Run" button is pressed Current time stamp based Start Sampling Stop Sampling on Datalogger. on host computer's internal When memory is full Recording starts, following clock setting. At time specified below Don't stop (overwrite oldest data) a user specified delay Temperature alarm user time set in the entry box, When button on datalogger is pressed specified limits in degree after "Run" button is NOMAD Version After delay starting when button is pressed F or C. pressed. Serial #3 System Time: 8/23/1997 14:05:35 Excursions beyond Sampling option, selects set limits are displayed single recording or the -40.0°F to 253.0°F Sampling Option Single Temperature Alarm on Plot. Pressing "Run" highest, lowest or average button while recording will of 4 samples. 70 to 90 Sampling Interval R.H. Alarm 1 sec indicate alarm excursions on the NOMAD LED. Sampling interval in Total Record Length 4 hr 29 min seconds, minutes or hours Relative Humidity alarm 7 may be specified. Launch Cancel Sample Capacity: 16192 20 to 90% allowed. Automatically calculated Start sampling Abort Launch On-line help available. from interval entry and device capacity. Recording capacity of NOMAD, (model

Readout and Plotting: Windows and Macintosh



Zoom in on any selected plot. Using the mouse, click and drag draw box around area of interest. Multiple zooms

copied and imported into applications running under Windows or MAC.

NOMAD™ Datalogger Launch and Offloading with DOS

dependent).

