



# Temperature Data Logger

## Part of the NOMAD® Family

OM-21  
10-Pack



- ✓ Plug-and-Play USB 2.0 Interface
- ✓ No Special Software or Driver Required for Programming and Download
- ✓ Automatically Generates a PDF Report While Connected to PC
- ✓ PDF Report Contains Summary, Graph and Detailed Data List
- ✓ Low Cost Single Use with Accurate Thermistor Sensor
- ✓ EN12830, FDA 21 CFR Part 11 Compliance

The OM-21 data logger is for use in cold chain applications to monitor the transportation of pharmaceuticals, food and other temperature sensitive products. The data logger is completely user-programmable including language selection, sampling interval, start delay, alarm delay, temperature units, alarm range, alarm type, password and user name. The unit's compact, lightweight, waterproof and flat design allows it to fit inside any package. No special software or driver is required for set-up or download of data. On completion of data logging a PDF report is automatically generated containing data summary, graph and tabular results. The data logger appears as a mass storage device when connected to the PC. User manual, set-up utility and PDF report are all stored in the data logger.

### Specifications

#### TEMPERATURE

**Sensor:** Thermistor

**Range:** -30 to 70°C (-22 to 158°F)

**Accuracy:** ±0.5°C

**Resolution:** 0.1°C (0.1°F)

**Units:** °C or °F

**Logging Type:** Single use

**Memory:** 8192 readings

**Sampling Interval:** 30 seconds, 5, 10, 30, 60, 90, 120 minutes

**Data Integrity:** File encrypted technology ensures data integrity

**Password:** Can be ON or OFF (default is OFF); password can be up to 16 alpha-numeric characters

**Compatibility:** Windows XP/Vista/7 and 8

**Start Delay:** 0, 5, 30, 45, 60, 90, 120 minutes



OM-21



#### Alarms:

**Single:** A LED alarm is triggered immediately when the measured value exceeds the alarm threshold

**Cumulative:** A LED alarm is not triggered when the measured value exceeds the alarm threshold, but only once the overall average value during alarm delay duration exceeds the alarm threshold

**Disable:** No LED alarm function during the logging process

**Alarm Range:** -20 to -10°C (-4 to 14°F), -10 to 0°C (14 to 32°F), 2 to 8°C (36 to 46°F) (low alarm below 2°C, high alarm above 8°C), 0 to 15°C (32 to 59°F), 0 to 25°C (32 to 77°F), 15 to 25°C (59 to 77°F) (other ranges possible)

**Alarm Delay:** Preset alarm delay for single alarm type is always zero; the adjustable alarm delay time for cumulative alarm type is user-selectable at 5, 30, 45, 60, 90, or 120 minutes

**Language:** English (default), German, French, Italian, Spanish

**Operation:** 2 keys; start/stop key and mark key (provides up to 8 bookmarks during the data logging period)

**LED Indicators:** REC, low battery, high alarm, low alarm



**Operating Humidity:** <80% RH  
**Storage Temperature:** -40 to 85°C (-40 to 185°F)  
**Storage Humidity:** <90% RH  
**Power:** 3V lithium battery (CR2032) factory installed  
**Shelf Life:** 12 months  
**Protection Class:** IP65 (when contained in the included plastic bag)  
**Weight:** 10 g (0.35 oz)  
**Dimensions:**

**Unpouched Size:** 73 L x 33 W x 2.5 mm D  
 (2.87 x 1.30 x 0.10")  
**Pouched Size (data logger inside included plastic bag):** 105 L x 55 W x 2.5 mm D (4.13 x 2.17 x 0.10")



OM-21 shown inside waterproof zipper bag.

### Temperature Data logger

SN 1530104 ALERT

Device Specification	
Production date	25 Mar. 2015
Production lot	1403001
Firmware version	V3.8
Original time zone	UTC+13
Start	17:42,30 Apr. 2015
Finish	11:52,04 May. 2015
Sampling Rate	5 Minutes
Start Delay	0 Minutes
Readings	1082 points
High Alarm	25.0°C
Low Alarm	15.0°C
Alarm Delay	0 Minutes
Alarm Type	Single event

Statistics(excludes Start Delay)	
Duration Time	3Days 18Hrs. 10Min.
Max Temp	25.3°C
Average Temp	23.1°C
Min Temp	21.9°C
Std. Dev	0.5°C
MKT	23.2°C
Total time within	3Days 17Hrs. 55Min.
Total time above	0Days 0Hrs. 15Min.

File Information	
File created	11:56,04 May. 2015

Marked Events	
(1)	17:42 30 Apr. 2015
(2)	16:15 01 May. 2015
(3)	14:47 02 May. 2015
(4)	13:20 03 May. 2015
(5)	11:52 04 May. 2015

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### Temperature Data logger

SN 1530104 ALERT

Date	Time	°C	Index	Date	Time	°C
30/04/15	17:47:37	25.1	61	30/04/15	22:47:37	23.3
30/04/15	17:52:37	24.4	62	30/04/15	22:52:37	23.3
30/04/15	18:02:37	24.2	63	30/04/15	23:02:37	23.3
30/04/15	18:07:37	24.0	64	30/04/15	23:07:37	23.3
30/04/15	18:12:37	23.9	65	30/04/15	23:12:37	23.3
30/04/15	18:17:37	23.9	66	30/04/15	23:17:37	23.3
30/04/15	18:22:37	24.0	67	30/04/15	23:22:37	23.4
30/04/15	18:27:37	24.1	68	30/04/15	23:27:37	23.4
30/04/15	18:32:37	24.1	69	30/04/15	23:32:37	23.4
30/04/15	18:37:37	24.1	70	30/04/15	23:37:37	23.4
30/04/15	18:42:37	24.1	71	30/04/15	23:42:37	23.4
30/04/15	18:47:37	24.1	72	30/04/15	23:47:37	23.4
30/04/15	18:52:37	23.7	73	30/04/15	23:52:37	23.4
30/04/15	18:57:37	23.6	74	30/04/15	23:57:37	23.4
30/04/15	19:02:37	23.5	75	01/05/15	00:02:37	23.4
30/04/15	19:07:37	23.4	76	01/05/15	00:07:37	23.3
30/04/15	19:12:37	23.3	77	01/05/15	00:12:37	23.3
30/04/15	19:17:37	23.4	78	01/05/15	00:17:37	23.3
30/04/15	19:22:37	23.5	79	01/05/15	00:22:37	23.3
30/04/15	19:27:37	23.6	80	01/05/15	00:27:37	23.3
30/04/15	19:32:37	23.8	81	01/05/15	00:32:37	23.3
30/04/15	19:37:37	23.8	82	01/05/15	00:37:37	23.3
30/04/15	19:42:37	23.8	83	01/05/15	00:42:37	23.3
30/04/15	19:47:37	23.8	84	01/05/15	00:47:37	23.3
30/04/15	19:52:37	23.8	85	01/05/15	00:52:37	23.3
30/04/15	19:57:37	23.8	86	01/05/15	00:57:37	23.3
30/04/15	20:02:37	23.8	87	01/05/15	01:02:37	23.3
30/04/15	20:07:37	23.8	88	01/05/15	01:07:37	23.3
30/04/15	20:12:37	23.7	89	01/05/15	01:12:37	23.4
30/04/15	20:17:37	23.7	90	01/05/15	01:17:37	23.4
30/04/15	20:22:37	23.5	91	01/05/15	01:22:37	23.4
30/04/15	20:27:37	23.2	92	01/05/15	01:27:37	23.4
30/04/15	20:32:37	23.3	93	01/05/15	01:32:37	23.4
30/04/15	20:37:37	23.2	94	01/05/15	01:37:37	23.4
30/04/15	20:42:37	23.3	95	01/05/15	01:42:37	23.4
30/04/15	20:47:37	23.4	96	01/05/15	01:47:37	23.3
30/04/15	20:52:37	23.5	97	01/05/15	01:52:37	23.3
30/04/15	20:57:37	23.5	98	01/05/15	01:57:37	23.3
30/04/15	21:02:37	23.5	99	01/05/15	02:02:37	23.3
30/04/15	21:07:37	23.5	100	01/05/15	02:07:37	23.3
30/04/15	21:12:37	23.4	101	01/05/15	02:12:37	23.3
30/04/15	21:17:37	23.4	102	01/05/15	02:17:37	23.3
30/04/15	21:22:37	23.4	103	01/05/15	02:22:37	23.3
30/04/15	21:27:37	23.5	104	01/05/15	02:27:37	23.3
30/04/15	21:32:37	23.5	105	01/05/15	02:32:37	23.3
30/04/15	21:37:37	23.5	106	01/05/15	02:37:37	23.3
30/04/15	21:42:37	23.5	107	01/05/15	02:42:37	23.3
30/04/15	21:47:37	23.5	108	01/05/15	02:47:37	23.3
30/04/15	21:52:37	23.5	109	01/05/15	02:52:37	23.3
30/04/15	21:57:37	23.5	110	01/05/15	02:57:37	23.3
30/04/15	22:02:37	23.5	111	01/05/15	03:02:37	23.3
30/04/15	22:07:37	23.5	112	01/05/15	03:07:37	23.3
30/04/15	22:12:37	23.5	113	01/05/15	03:12:37	23.3
30/04/15	22:17:37	23.5	114	01/05/15	03:17:37	23.3
30/04/15	22:22:37	23.5	115	01/05/15	03:22:37	23.3
30/04/15	22:27:37	23.4	116	01/05/15	03:27:37	23.3
30/04/15	22:32:37	23.4	117	01/05/15	03:32:37	23.3
30/04/15	22:37:37	23.4	118	01/05/15	03:37:37	23.3
30/04/15	22:42:37	23.3	119	01/05/15	03:42:37	23.3
30/04/15	22:47:37	23.3	120	01/05/15	03:47:37	23.3

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On completion of data logging a PDF report is automatically generated containing data summary, graph and tabular results.

To Order	
Model No.	Description
OM-21-10PK	Single use cold chain PDF temperature data logger, 10 pack