NEW

4-Channel Portable Data Loggers

OM-DAQLINK-TEMP

All models shown smaller than actual size.

OM-DAQLINK-TEMP-RH

OM-DAQLINK Series

1 YEAR WARRANTY CE **NIST** Standard

- ✔ **4 External Inputs for Current, Voltage, Thermocouple, RTD, Frequency/Pulse Counter/ Contact Closure**
- ✔ **Internal Channels for Temperature (OM-DAQLINK-TEMP) or Temperature and Humidity (OM-DAQLINK-TEMPRH)**
- ✔ **12V Power Available for External Devices**
- ✔ **Alarm Output**
- ✔ **Intuitive Keypad with Run/ Pause Data Logging Option**
- ✔ **4 Audio Alarms with Email/SMS Notification to Any Location**
- ✔ **Real-Time Data Streaming to PC or Large Cyclic Memory Storage**
- ✔ **On-Site Monitoring with Two Row LCD Display and Periodic USB Data Download**
- ✔ **Long-Lasting Rechargeable Battery**
- ✔ **Powerful Analysis Software for Windows XP/VISTA/7**

With built-in temperature and humidity sensors, plus four external probe inputs the OM-DAQLINK Series standalone data loggers ensures a low cost, reliable and accurate solution. The OM-DAQLINK data logger is a 16-bit, mobile data acquisition device for continuous indoor or outdoor data monitoring.

The OM-DAQLINK Series is comprised of two data logger models, measuring a broad range of parameters on four external inputs for direct measurement and recording of PT100 RTD, J/K/T thermocouple, 0 to 1 V, 4 to 20 mA, contact, frequency and pulse sensors, as well as internal temperature and relative humidity sensors.

With its high resolution and fast Analog to Digital converter (ADC), OM-DAQLINK Series data loggers meet the majority of data acquisition requirements in most industrial applications. Every OM-DAQLINK data logger is embedded with a unique serial number and can be loaded with a descriptive comment

for safe identification. An internal clock and calendar keeps track of the time and date of every sample measured. OM-DAQLINK Series data loggers can automatically activate external alarm events when data is outside a specified range. Email and SMS notifications can be sent to predefined contacts.

The OM-DAQLINK Series includes two data logger models OM-DAQLINK-TEMP and OM-DAQLINK-TEMPRH. These data loggers support up to four external sensors and two internal sensors: internal temperature (OM-DAQLINK-TEMP and OM-DAQLINK-TEMPRH) and internal humidity (OM-DAQLINK-TEMPRH only). Data is recorded and stored to the data logger's internal memory and transmitted over the network to the DataSuite software running on the PC. The data logger is programmed to consume as little power as possible during operation, in order to conserve the battery life.

When not transmitting or recording data the units are in sleep mode and they wake up when needed. The battery for the OM-DAQLINK-TEMP and OM-DAQLINK-TEMPRH is rechargeable and can run up to several months on one charge, depending on the logger configuration (battery life depends on the logger sampling rate, transmission rate, type of sensor, and number of measured sensors).

OM-DAQLINK Series data loggers use the powerful DataSuite software. The Windows® based software is the central management interface of the OM-DAQLINK Series. When connected via USB cable to the PC, the data from the OM-DAQLINK data logger can be monitored online and displayed in real-time graphs or tables. Analyze data with various mathematical tools, or export data to a spreadsheet. The software also enables you to configure, calibrate or update the firmware of OM-DAQLINK Series data loggers via direct USB connection.
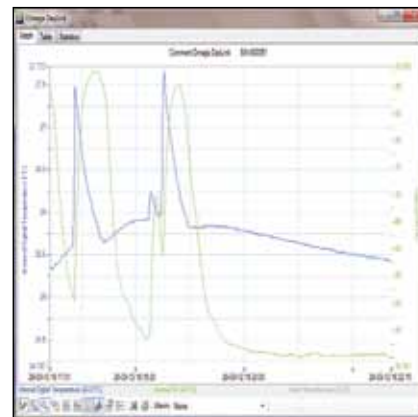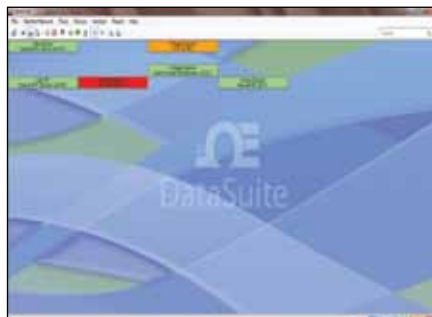
DataSuite provides one software platform for a wide range of Omega products in addition to the OM-DAQLINK Series data loggers, such as the OM-DATANET Series wireless modules and the OM-MICROLITE and OM-MICROLOGPRO portable, standalone loggers. DataSuite lets you monitor and compare data from multiple systems in a singular, uniform view.

Key Features of the DataSuite Software Include:
• Multiple data view features, map view displaying unit location, signal path and strength
• Alarm features with 4 alarm levels sending email and SMS notifications
• Reporting module for creating and generating reports with selected distribution, analysis features including dew point analysis, FO Pasteurization, histogram, statistics with export to Excel and CSV formats.
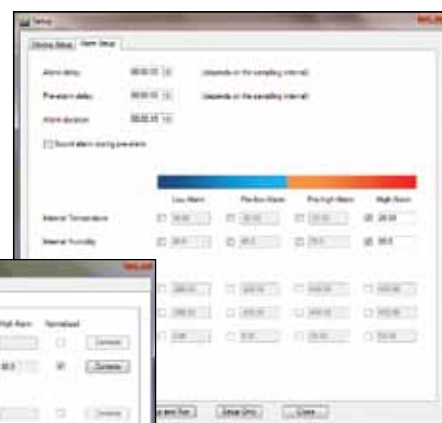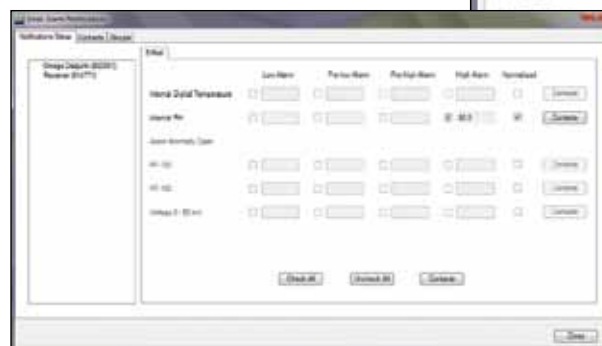
DataSuite Data View Features
Real-time, online data in multiple displays (Graph, Table, Statistics, Sensor View).
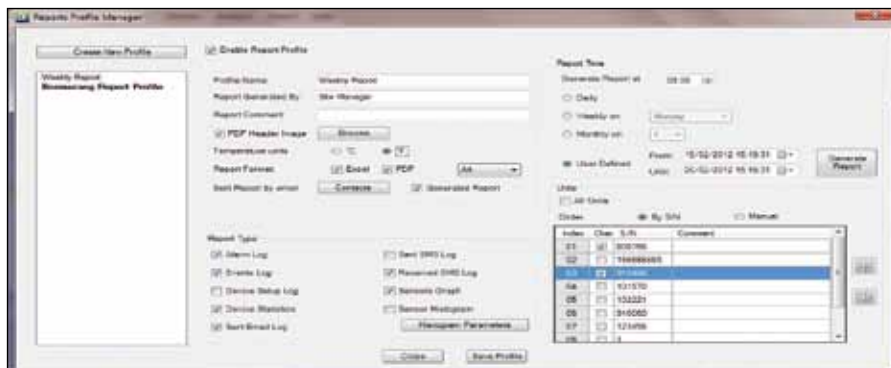

DataSuite Alarm Features
Alarm level setup with email and SMS notifications. Four alarm levels, allowing for programming of 4 separate parameters, with alarm delay and duration.
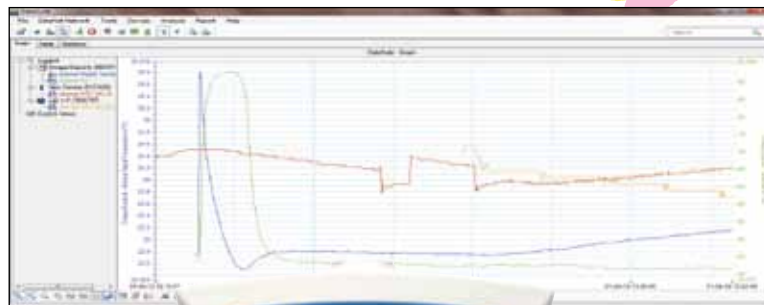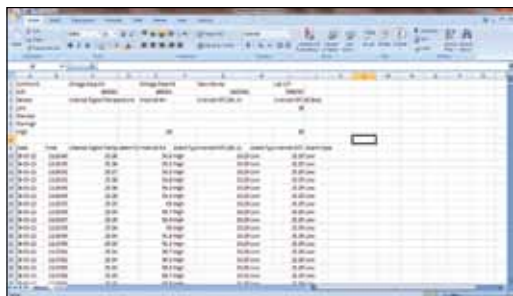

DataSuite Report Module
The Report Module provides the OM-DAQLINK user with an intuitive interface for creating and generating reports which have many parameters garnered from the OM-DAQLINK data logger and software. Each report can be emailed to a selected distribution list, at predefined time intervals, in PDF and Excel format.

DataSuite Analysis Features
Dew point analysis, FO Pasteurization, histogram, MKT, statistics with export to Excel and CSV formats.

SPECIFICATIONS

INPUTS

Number of External Inputs:
4 differential analog inputs

Input Type:
Selectable Type for Each Input:
4 to 20 mA, 0 to 50 mV, 0 to 1 V, PT100 RTD, J/K/T thermocouple, pulse and frequency (input 4 only)

INPUT TYPES

4 to 20 mA
  Range: 4 to 20 mA
  Resolution: 4.76 µA
  Accuracy: ±0.5%
  Loop Impedance: 21Ω

0 to 50 mV
  Range: 0 to 50 mV
  Resolution: 3 µV
  Accuracy: ±0.5%
  Input Impedance: 25 MΩ
  Max Voltage: 3.2V

0 to 1V
  Range: 0 to 1V
  Resolution: 200 µV
  Accuracy: ±0.5%
  Input Impedance: 25 MΩ
  Max Voltage: 3.2 V

Temperature Pt100 (2-Wires)
  Range: -200 to 400°C (-328 to 752°F)
  Resolution: 0.1°C
  Accuracy: -200 to -60°C, ±0.5%; -60 to 60°C, ±0.3°C; 60 to 400°C, ±0.5%

Temperature Thermocouple J
  Range: -200 to 1000°C (-328 to 1832°F)
  Resolution: 0.1°C
  Accuracy: -200 to -60°C, ±0.5%; -60 to 60°C, ±0.5°C; 60 to 1000°C, ±0.5%
  Cold Junction Compensation Error: ±0.3°C

Temperature Thermocouple K
  Range: -200 to 1000°C (-328 to 1832°F)
  Resolution: 0.1°C
  Accuracy: -200 to -60°C, ±0.5%; -60 to 60°C, ±0.5°C; 60 to 1000°C, ±0.5%
  Cold Junction Compensation Error: ±0.3°C

Temperature Thermocouple T
  Range: -200 to 400°C (-328 to 752°F)
  Resolution: 0.1°C
  Accuracy: -200 to -60°C, ±0.5%; -60 to 60°C, ±0.5°C; 60 to 400°C, ±0.5%
  Cold Junction Compensation Error: ±0.3°C

Frequency (Input 4 only)
  Type: Zero crossing detector
  Range: 20 Hz to 4 KHz
  Input Signal: 0 to 4000 Hz
  Input Impedance: 470 Ω

Pulse Counter (Input 4 only)
  Type: Zero crossing detector
  Range: 1 to 65,536 counts
  Resolution: 1 count
  Frequency Range: 0 to 4000 Hz
  Input Signal: 0 to 3.2 V
  Input Impedance: 470 Ω

Contact
  Range: Open/Closed

OM-DAQLINK-TEMPRH, data logger with PRTF-10, RTD probes (sold separately) connected. Visit omega.com/prtf-10 for more information.

Internal Temperature (OM-DAQLINK-TEMP and OM-DAQLINK-TEMPRH)

Input Type: Pt100 (OM-DAQLINK-TEMP); digital (OM-DAQLINK-TEMPRH)

Range: -20 to 50°C

Resolution: 0.1°C

Accuracy: ±0.3°C
(OM-DAQLINK-TEMP): ±0.3°C
(OM-DAQLINK-TEMPRH): ±0.5°C

Internal Humidity (OM-DAQLINK-TEMPRH Only)

Range: 5 to 95%

Resolution: 0.5%

Accuracy: ±3% from 10 to 90% RH, ±5% from 5 to 10% RH and 90 to 95% RH

OUTPUTS

External Power Excitation (Transducers Usage): 12 Vdc @ 2 A, reset fuse overload protection

Dry Contact Alarm Output

Type: Open collector

Close Position Resistance: 50 Ω

Max Load: 50 mA, 3 Vdc

GENERAL SPECIFICATIONS

PC Communication: USB 2.0 compliance, mini USB type B cable

Operating Temperature: -20 to 50°C (-4 to 122°F)

MEMORY

Memory Modes: Cyclic/non-cyclic, push to run, pause

Memory Capacity: 59,000 samples

SAMPLING INTERVAL

Sampling Rate: One every second to one every 18 hours for all sensors on all inputs, however there are certain limitations for particular combinations of sensors (see chart)
• **Sampling Resolution:** 16-bit
• **Channel Reparation:** 80 dB

MAN MACHINE INTERFACE

Keypad: Two-button keypad operation
Display: 2-row LCD, 16 character

POWER SUPPLY

Power: Internal rechargeable 4.8 V, 800 mAh NiMH battery (2 batteries in series), built-in battery charger, external 12 Vdc input @ 300 mA 3.6 VA

Battery Life: 6 months between charges (15 min sampling rate)

MECHANICAL

Enclosure Material: ABS plastic

Enclosure Rating: Water and dust proof (IP54)

Dimensions: 104 H x 93 W x 27 mm D (4.1 x 3.66 x 1.06")

Weight: 153 g (5.4 oz)

Mounting: Table or wall mounting

DATASUITE SOFTWARE

Supported Operating Systems: Windows® XP SP3/Vista/7 (32 and 64 Bit)

Minimum Hardware Requirements: Pentium 4, 2 GHz Processor or better, 512 MB RAM, 250 MB available disk space

OM-DAQLINK-TEMP data logger shown smaller than actual size.

OM-DAQLINK-TEMP-RH data logger shown smaller than actual size.

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

Sensor Combination	Maximum Sampling Rate
3 or 4 thermocouple or RTD inputs	3 sec
1 thermocouple or RTD input and internal temperature	3 sec
2 or 3 thermocouple or RTD inputs and internal temperature	4 sec
4 thermocouple or RTD inputs and internal temperature	5 sec

To Order *Visit omega.com/om-daqlink for Pricing and Details*

Model No.	Description
OM-DAQLINK-TEMP	Data logger with 4 external inputs and internal temperature sensor
OM-DAQLINK-TEMPRH	Data logger with 4 external inputs and internal temperature and humidity sensors
OM-DAQLINK-SOFT	DataSuite software, and 3 m (10') USB interface cable
OM-DAQLINK-BATT	Replacement internal battery pack
OM-DAQLINK-GSM	GSM modem (for SMS alerts)
OM-DAQLINK-ADAPTOR-UNIV	Replacement universal 110/220 Vac power adaptor
OM-DAQLINK-USB-CABLE-3M	Replacement 3 m (10') USB interface cable

Comes complete with universal 110/220 Vac power adaptor and NIST calibration certificate. DataSuite software and USB interface cable are sold together as a separate package (OM-DAQLINK-SOFT) and are required to operate the data logger.

***Ordering Example: OM-DAQLINK-TEMPRH** data logger with 4 external inputs and internal temperature and humidity sensors and **OCW-1** OMEGACARE extended 1 year warranty (adds 1 year to standard 1 year warranty), and **OM-DAQLINK-SOFT** DataSuite software, and 3 m (10') USB interface cable.*