



Compact Portable Dataloggers

Part of the NOMAD® Family

OM-USCAN Series

\$290

Basic Unit



OM-USCAN-RS232-INT
Serial Interface



- ✓ Two Temperature Measurement Channels, One Internal, One for Optional External Sensor
- ✓ Accuracy ± 0.2 °C
- ✓ Stainless Steel or Aluminum Case
- ✓ Watertight
- ✓ Shockproof

OM-USCAN Series dataloggers will store either one channel or two channels of temperature data from the built-in internal temperature sensor and/or optional external temperature sensor. The datalogger is set up through software with the logger connected to the OM-USCAN-RS232-INT serial interface which is in turn connected to your PC's communications port. Once the datalogger is set up it can be disconnected from the serial interface and put out in the field to log data. To download stored data, simply re-connect the datalogger to the serial interface, readout the logged data using the Windows software and store it on your PC's hard drive.

In the setup mode, the software has a setup window that allows you to start the datalogger and program various setup parameters including (1) sensor selection, i.e., store data from internal, external, or internal and external sensor, (2) monitor data in real time scan mode (in this mode the logger is connected to the PC and an on-line temperature sensor is connected to the logger), (3) select measurement interval (sampling rate), and (4) delayed start time (if desired). Downloaded temperature data can be displayed in graph format for one or two channels or displayed in table format suitable for export to Excel. If two channels of data are graphed, the software normally plots two channels on separate traces but can



OM-USCAN-SS
Datalogger

also display the average of the two traces, the difference between the two traces, or superimpose the two traces on the same plot. Statistical values of stored data including minimum, maximum and average can also be displayed.

Specifications

DATALOGGERS

No. Channels: two, internal and external

Sensor Type: internal and optional external, precision NTC thermistor

Measuring Range: internal sensor, -22 to 158 °F (-30 to 70 °C); external sensor, -40 to 248 °F (-40 to 120 °C)

Accuracy: ± 0.1 °C typical, ± 0.2 °C max, 0 to 50 °C

Resolution: 0.18°F(0.1°C)

Memory Capacity: 33,000 samples (64K words, 16 bit) total

Sampling Interval: 1-channel mode, 10 sec up to 20 min in 9 steps; 2-channel mode, 20 sec

up to 40 min in 9 steps

Start Delay: 6 days max programmable in 1 hour steps

Recording Period: 3.87 days to 454.5 days for total of 33,000 samples

Quartz Time Base: ± 5 min deviation max per yr

Communications: RS-232, 4800 baud

Battery: 2/3 AA lithium battery

Battery Life: 7.8 million samples or 2.5 yrs continuous use at 10 sec sample rate, 9 yrs data retention at 25 °C

Case: shockproof to more than 300g; IP68 watertight to more than 10 bar above atmospheric pressure

Material: OM-USCAN-SS, stainless steel;

OM-USCAN-AL, aluminum

Dimensions: OM-USCAN-SS, 0.79" dia x 6.18" L (20 x 157 mm); OM-USCAN-AL, 0.79" dia x 4.92" L (20 x 125 mm)

Weight: OM-USCAN-SS, 163 g (5.7 oz); OM-USCAN-AL, 78 g (2.7 oz)

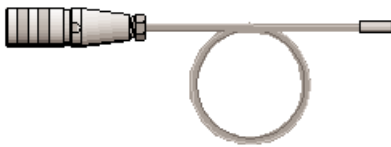
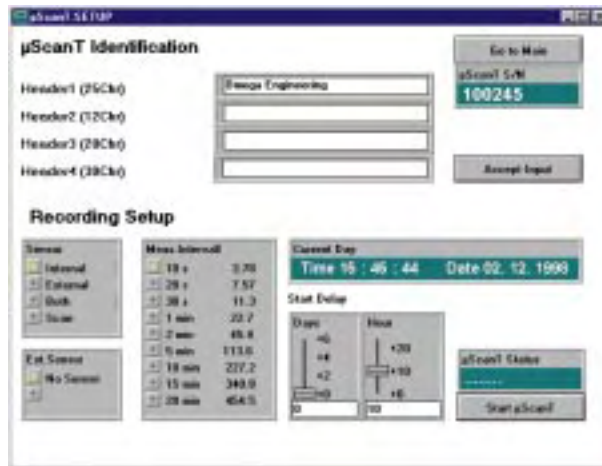
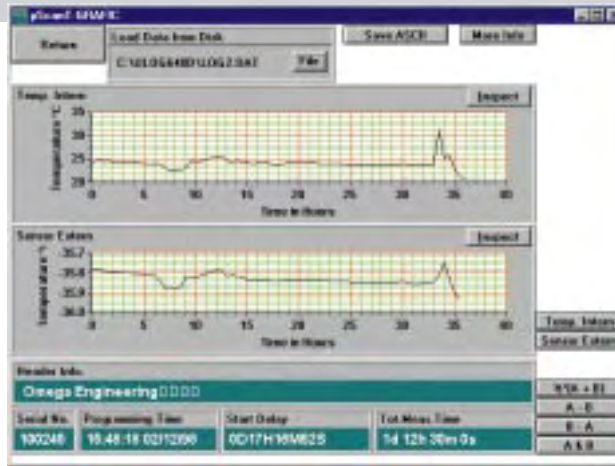


RS-232 INTERFACE

Connection: DB9F connector for RS-232 cable to PC
Communications: RS-232, 300 to 4800 baud, 8 data bits, 1 stop bit, no parity
Power: internal 9V alkaline battery (battery life more than 20 hours).
Case: Stainless steel

WINDOWS SOFTWARE

System Requirements: IBM PC 80386/33 or higher with 8 MB RAM (80486 and 8 MB RAM recommended), at least 5 MB free hard disk space, WIN 3.1x/95/98/NT



External temperature sensor
 Sensor diameter, 5 mm



External temperature stick sensor
 Sensor diameter, 5 mm



On-line temperature sensor
 Sensor diameter, 5 mm



Function status LED connector

To Order (Specify Model Number)

Model No.	Price	Description
OM-USCAN-SS	\$315	Datalogger with stainless steel case
OM-USCAN-AL	290	Datalogger with aluminum case

Dataloggers are supplied with battery and complete operator's manual.

Ordering Example: OM-USCAN-SS datalogger with stainless steel case, OMEGACARESM 1-year extended warranty for OM-USCAN-SS (adds 1 year to standard 1-year warranty), OM-USCAN-RS232-INT serial interface with Windows software and OM-USCAN-RS232-CABLE RS-232 cable, \$315 + 31 + 275 + 12 = \$633.

Accessories

Model No.	Price	Description
OM-USCAN-ETS1	\$75	External temp sensor with 1 m cable and connector
OM-USCAN-ETS2	80	External temp sensor with 2 m cable and connector
OM-USCAN-ETS3	85	External temp sensor with 3 m cable and connector
OM-USCAN-ETSS1	90	External temp stick sensor, 100 mm length
OM-USCAN-ETSS2	115	External temp stick sensor, 200 mm length
OM-USCAN-RS232-INT	275	RS-232 interface with Windows software
OM-USCAN-RS232-CABLE	12	RS-232 cable with DB9F termination
OM-USCAN-BATTERY	15	Spare 2/3 AA battery
OM-USCAN-OLTS1	45	On-line temp sensor with 1 m cable and connector
OM-USCAN-OLTS2	50	On-line temp sensor with 2 m cable and connector
OM-USCAN-OLTS3	55	On-line temp sensor with 3 m cable and connector
OM-USCAN-LED	35	Function status LED connector (connects to logger and shows if logger is in measuring mode or delay mode)

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



UNITED STATES

www.omega.com

1-800-TC-OMEGA
Stamford, CT.

UNITED KINGDOM

www.omega.co.uk

Manchester, England
0800-488-488
+44-(0)161-777-6611

CANADA

www.omega.ca

Laval(Quebec)
1-800-TC-OMEGA

FRANCE

www.omega.fr

0800-466-342

GERMANY

www.omega.de

Deckenfronn, Germany
0800-8266342

BENELUX

www.omega.nl

0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters