



Compact Portable Dataloggers

Part of the NOMAD® Family

OM-USCAN Series

\$290

Basic Unit

- ✓ 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

OM-USCAN-RS232-INT
Serial Interface



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

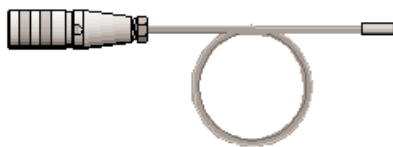
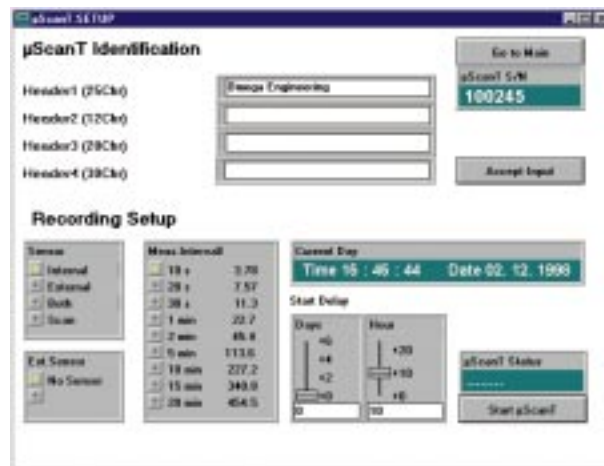
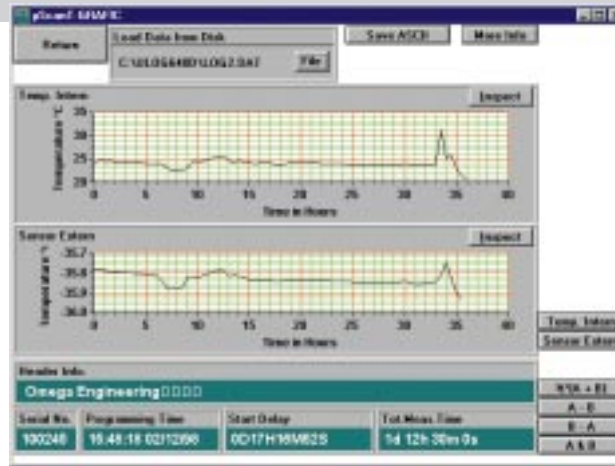
Communications: RS-232, 300 to 4800 baud, 8 data bits, 1 stop bit, no parity

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)



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