

Portable Handheld Data Logger

OM-2041



- ✓ Input Signals: K, E, J, T, 0 to 5 V, and 0 to 20 mA (Process Signals Need Input Adaptor)
- ✓ Simultaneous 4-Channel Measurement and Display
- ✓ High/Low Alarms for Each Channel
- ✓ Computation: Maximum/Minimum/Average
- ✓ Logging Method: Log Mode and Tag Mode
- ✓ Data Processable Through a Personal Computer
- ✓ NEMA 3 Protection
- ✓ "AA" Battery Power Supply

The handy OM-2041 is a palm-size data logger capable of storing up to 10,000 data records per channel. Powered by either "AA" batteries or an AC adaptor, the OM-2041 works equally well as a portable or a fixed-location logger.

With the exclusive software, recording/recalling of data and programming of logging parameters can be done directly with the logger or through a personal computer.

Specifications MEASURING RANGE

- Thermocouple:**
- K: -200.0 to 1370.0°C (-328.0 to 2498.0°F)
 - E: -200.0 to 700.0°C (-328.0 to 1292.0°F)
 - J: -200 to 700.0°C (-328.0 to 1292.0°F)
 - T: -200.0 to 400.0°C (-328.0 to 752.0°F)

- DC Voltage:** 0 to 5 V (scale -9999 to 9999)
- DC Current:** 0 to 20 mA (scale -9999 to 9999)

ACCURACY RATING

- Thermocouple:**
- 100°C or More:** (±0.1% of measuring value +0.3°C)
 - 100°C or Less:** (±0.1% of measuring value +0.6°C)
 - DC Voltage:** (±0.1% of measuring value +0.2% of range)

Reference Junction Compensation Accuracy:

- ±0.4°C (at ambient temperature 15 to 35°C);
- ±0.7°C (at ambient temp. -10 to 15, 35 to 50°C)

Temperature Drift: ±0.01%/°C of measuring range

Allowable Signal Source Resistance:
100 Ω (burnout over upper limit)

Input Resistance: DC voltage inputs over 1 MΩ

Withstand Voltage Between Channels: 400 Vac

Measuring Cycle: 1 second/4 channels

Logging Interval:

- 1 second to 30 seconds (1 second steps);
- 1 minute to 24 hours (1 minute steps)

Logging Data:

- Log Mode:** 10,000 data records/channel
- Tag Mode:** 5500 data records/channel



Display: LCD with backlight
Dot-matrix 128 x 64 dot (view area 41 x 29 mm)

Operation Key: 18-key including numeric key

Logging Method:

Log Mode: Logging data per cycle (20 points) in log area

Tag Mode: Logging data (20 points), then press the trigger in tag area

Display Contents: Measured value, alarm, maximum/minimum/average value, computation value, etc.

Other Functions: Clock (year, month, day/hour, minute, second), auto power-off, reading correction, backlight, buzzer, residual battery, residual memory, alarm, calculation, key lock, etc.

Communications: RS232C or USB
Power Supply: 4 "AA" batteries (included) or AC adaptor (100 to 240 Vac)
Battery Life: 500 hours or longer (at 25°C, 1-minute interval)
Backup Battery: Backup log data, setting and clock by lithium battery
Backup Battery Life: 5 years or longer (at 25°C)
Dimensions: 159 H x 70 W x 33 mm D (6.2 x 2.7 x 1.3") excluding protrusions
Weight: Approx 300 g (10.5 oz) including batteries
Casing Material: Nylon ABS (antibacterial)
Ambient Temperature: -10 to 50°C (14 to 122°F)
Ambient Humidity: 10 to 80% RH (no condensation)
CE Approval: EN-61326, Class B (battery operation)
Protection: NEMA 3
Accessories: 4 "AA" batteries, wall-mount holder (included)

To Order Visit omega.com/om-2041 for Pricing and Details	
Model No.	Description
OM-2041-USB	4-channel handheld data logger with USB port
OM-2041-C2	4-channel handheld data logger with C2 port
OM-SPT-USB	Software with USB cable
OM-SPN-C2	Software with RS232C cable

Accessories

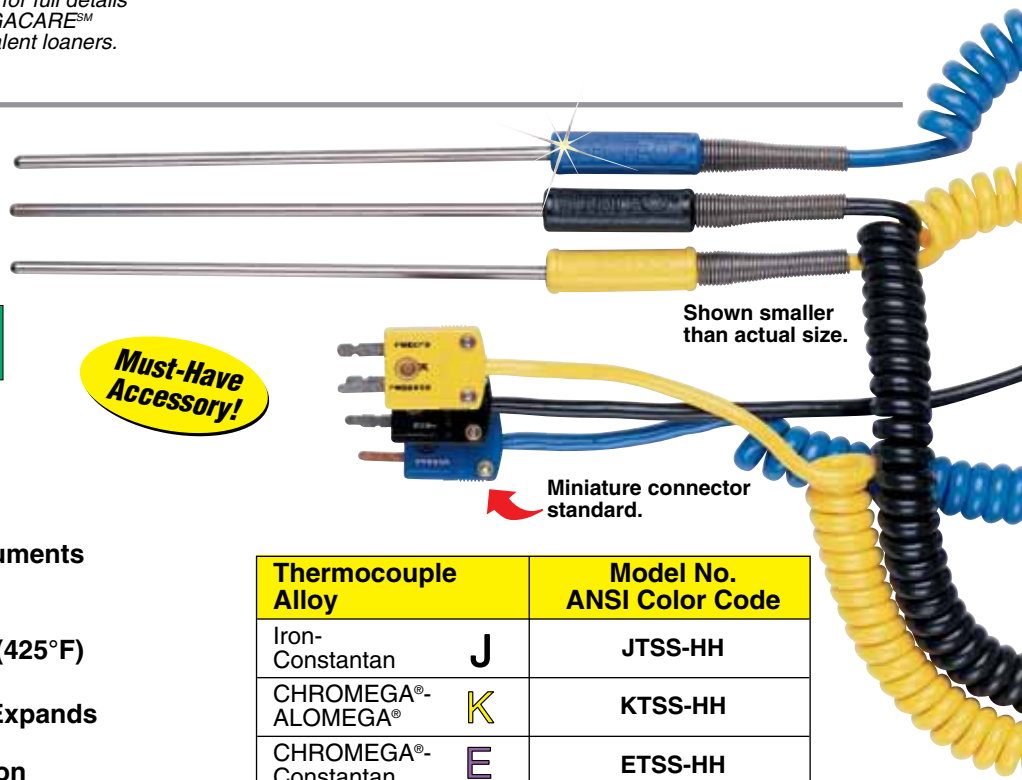
Model No.	Description
OM-9407	Current input adaptor
OM-9408	Voltage input adaptor
OM-AC	AC adaptor

Comes complete with operator's manual, beaded wire Type K probe for each input, wall mount holder, and 4 "AA" batteries.
Ordering Example: OM-2041-USB, 4-channel handheld data logger. OCW-3, OMEGACARESM extends standard 2-year warranty to 5 years.



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

General Purpose Miniature Probes with Miniature Connectors



ANSI color code shown To order IEC color code visit omega.com

Must-Have Accessory!



MEETS OR EXCEEDS SPECIAL LIMITS OF ERROR (SLE) AND EN 60584-2: Tolerance Class 1

- ✓ Works Great with Handheld Instruments
- ✓ 150 mm (6") Length Standard†
- ✓ 3.2 mm (1/8") OD 304 SS Sheath
- ✓ Molded Junction Rated to 220°C (425°F)
- ✓ Color-Coded to Calibration
- ✓ 300 mm (12") Retractable Cable Expands to 1.2 m (48")
- ✓ SMPW Male Connector Termination

The molded miniature probe works with most handheld thermocouple meters. Its color-coded retractable cable will stretch from 300 mm (12") to 1.2 m (48"). Grounded junction probes are suited for applications involving benchtop meters or oscillating machines. Calibration codes J, K, T, and E are available.

Thermocouple Alloy		Model No. ANSI Color Code
Iron-Constantan	J	JTSS-HH
CHROMEGA®-ALOMEGA®	K	KTSS-HH
CHROMEGA®-Constantan	E	ETSS-HH
Copper-Constantan	T	TTSS-HH

Note: Hot end junction grounded.

† Other lengths are available, consult Sales department.

Ordering Example: KTSS-HH, Type K thermocouple probe, 150 mm (6") long, 3.2 mm (1/8") dia with 1' of RSC cable (which stretches to 5') with a molded, miniature male thermocouple connector.