

## Portable Handheld Data Logger

OM-2041  
**\$792**

OM-2041, \$792.



- ✓ 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)



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

**MOST POPULAR MODEL HIGHLIGHTED!**

To Order (Specify Model Number)		
Model No.	Price	Description
OM-2041-USB	\$792	4-channel handheld data logger with USB port
OM-2041-C2	792	4-channel handheld data logger with C2 port
OM-SPT-USB	50	Software with USB cable
OM-SPN-C2	50	Software with RS232C cable

### Accessories

Model No.	Price	Description
OM-9407	\$60	Current input adaptor
OM-9408	55	Voltage input adaptor
OM-AC	50	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, \$792. OCW-3, OMEGACARE<sup>SM</sup> extends standard 2-year warranty to 5 years (\$198), \$792 + 198 = \$990.

Recommended Reference Book:  
Computer Networks, CS-2220, \$101.  
Visit [omega.com/bobi](http://omega.com/bobi) for Additional Books.

## General Purpose Miniature Probes with Miniature Connectors

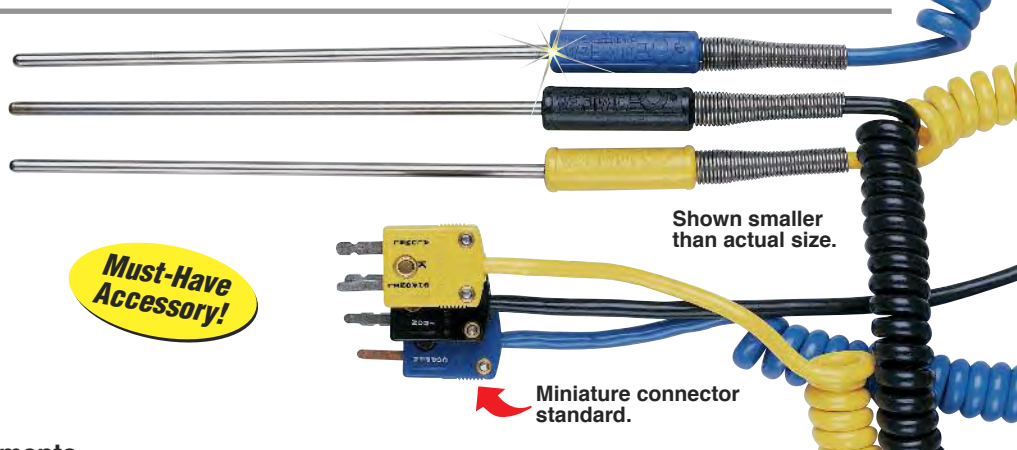
All Models  
**\$29**



ANSI color code shown To order IEC color code visit [omega.com](http://omega.com)

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

**Must-Have Accessory!**



Shown smaller than actual size.

- ✓ 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	Price
Iron-Constantan	J JTSS-HH	\$29
CHROMEGA <sup>®</sup> -ALOMEGA <sup>®</sup>	K KTSS-HH	29
CHROMEGA <sup>®</sup> -Constantan	E ETSS-HH	29
Copper-Constantan	T TTSS-HH	29

**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, \$29.



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0800-8266342

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0800-488-488

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