

Recorder Interface System

Model OM-34



**.1 YEAR
WARRANTY**

**MADE IN
USA**



OM-34 shown with OM-34-TC1 interface module. Thermocouple probes sold separately. Printer not included.

\$560
Basic Unit

- ✓ **Converts Your Printer into a Chart Recorder**
- ✓ **Up to 8 Channels of Recording**
- ✓ **Interfaces Thermocouple, RTD, Voltage, Process Current and Strain Gage Inputs**
- ✓ **Works With Black and White or Color Epson Compatible Printers**
- ✓ **User Friendly Display and Menu System Makes Setup Easy**

OMEGA's OM-34 recorder interface is a unique device that converts your standard Epson compatible printer into a strip chart recorder. You can economically trend thermocouple, RTD, voltage, process current and strain gage input signals on your existing printer without having to buy an expensive flatbed or vertical multi-point chart recorder. The OM-34 is small, portable, easy to setup and produces full sized graphs on low cost standard fan-fold printer paper.

The OM-34's user friendly display and menu system selects the number of channels, chart speed, black and white or color printing mode and scale range. The OM-34 can display each channel as full range equal to the full scale or zoom into full scale five times. For example, a type K thermocouple overall input scale is -100 to

2400°F. Five equally spaced ranges of -100 to 400°F, 400 to 900°F, 900 to 1400°F, 1400 to 1900°F and 1900 to 2400°F can be zoomed in on in this span. Model OM-34E includes an optional time/date stamp which is printed on the chart in the left margin at every tenth sample.

OM-34 interface modules are designed to be daisy chained so that two modules can be connected to the OM-34 unit for a total of eight channels of recording. When two interface modules are specified, both modules should be the same type, e.g., two OM-34-TC1 thermocouple interface modules. Also, if power is interrupted while the OM-34 is in printing mode, the unit will remember all configuration data and will resume printing when power is restored without operator intervention.

For Sales and Service
U.S.A. and Canada
1-800-DAS-IEEE
In Mexico, call 95-800-826-6342

ISO9001
CERTIFIED CORPORATE QUALITY



Model OM-34

Specifications

OM-34

Accuracy: $\pm 0.25\%$ fs

Resolution: 12 bits

Chart Speeds: 1 sec, 2 sec, 5 sec, 10 sec, 30 sec, 1 min, 2 min, 5 min

Printing Modes: black and white or color; in black and white mode, each channel has its own line type; in color mode, each channel has its own color

Printers Supported: most Epson compatible printers

Power: 12 Vdc via included 110 Vac 50/60 Hz power adapter

Dimensions: 2.5" H x 5" W x 6" L (64 x 127 x 152 mm)

Weight: 1 lb (0.45 kg)

COMMON SPECIFICATIONS FOR INTERFACE MODULES

(OM-34 -TC1, -TC2, -RTD, -V, -P, -S)

No. of Channels: 4

Power: supplied by OM-34

Dimensions: 2" H x 4" W x 5" L (51 x 102 x 127 mm)

Weight: 10 oz (284 g)

OM-34-TC1 THERMOCOUPLE INTERFACE MODULE

Thermocouple Types: J, K, T (user selectable)

Input Ranges: K: -100 to 400°F, 400 to 900°F, 900 to 1400°F, 1400 to 1900°F, 1900 to 2400°F; J: 0 to 300°F, 300 to 600°F, 600 to 900°F, 900 to 1200°F, 1200 to 1500°F; T: -100 to 100°F, 100 to 300°F, 300 to 500°F, 500 to 700°F, 700 to 900°F

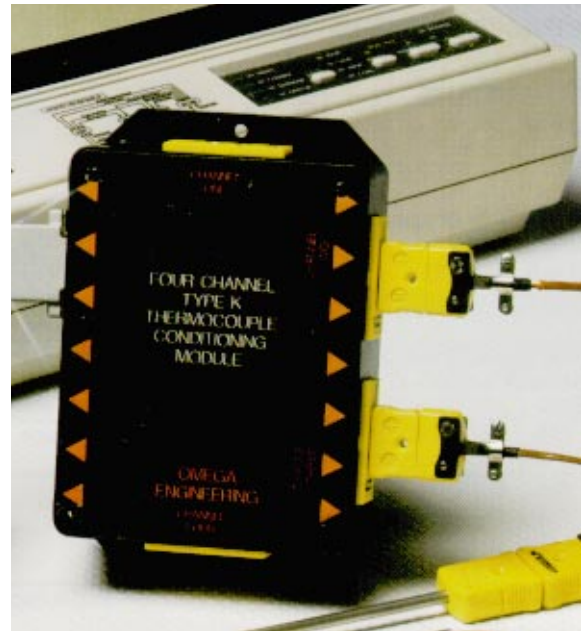
Signal Connections: uncompensated miniature female thermocouple jacks

OM-34-TC2 THERMOCOUPLE INTERFACE MODULE

Thermocouple Type: E

Input Ranges: -100 to 300°F, 300 to 700°F, 700 to 1100°F, 1100 to

Model OM-34-TC1 interface module.



Thermocouple probes sold separately.

1500°F, 1500 to 1900°F

Signal Connections: type E miniature female thermocouple jacks

OM-34-RTD 100 OHM PT RTD INTERFACE MODULE

Input Type: 3-wire 100 Ohm Pt RTD, $\alpha = 0.00385$

Input Ranges: -100 to 200°F, 200 to 500°F, 500 to 800°F, 800 to 1100°F, 1100 to 1400°F

Signal Connections: 3-prong uncompensated miniature female jacks

OM-34-V UNIVERSAL VOLTAGE INTERFACE MODULE

Input Ranges: 0-2.5 V, 0-5 V, 0-10 V, 0-25 V user selectable

Signal Connections: internal terminal strip

OM-34-P PROCESS INPUT INTERFACE MODULE

Input Ranges: 4-20 mA, 0-20 mA

Signal Connections: Internal terminal strip

OM-34-S BRIDGE INPUT INTERFACE MODULE

Input: 350 ohm strain gage bridge

Signal Connections: internal terminal strip

To Order (Specify Model Number)

| Model No. | Price | Description |
|-----------|-------|--|
| OM-34 | \$560 | Recorder interface system |
| OM-34E | 595 | Recorder interface system with real time clock (time/date stamp) |
| OM-34-TC1 | 395 | Interface module for types J, K and T thermocouples |
| OM-34-TC2 | 395 | Interface module for type E thermocouples |
| OM-34-RTD | 395 | Interface module for 100 Ohm Pt RTD's |
| OM-34-V | 260 | Universal Voltage interface module (up to 25 Vdc input) |
| OM-34-P | 395 | 4-20 ma/0-20 ma current interface module |
| OM-34-S | 540 | 350 Ohm strain gage bridge interface module |

Comes with complete operator's manual. Interface modules include cable to connect to OM-34.

Ordering Example: OM-34E recorder interface with real time clock plus two OM-34-TC1 interface modules for types J, K and T thermocouples, $\$560 + 2(395) = \1350 .