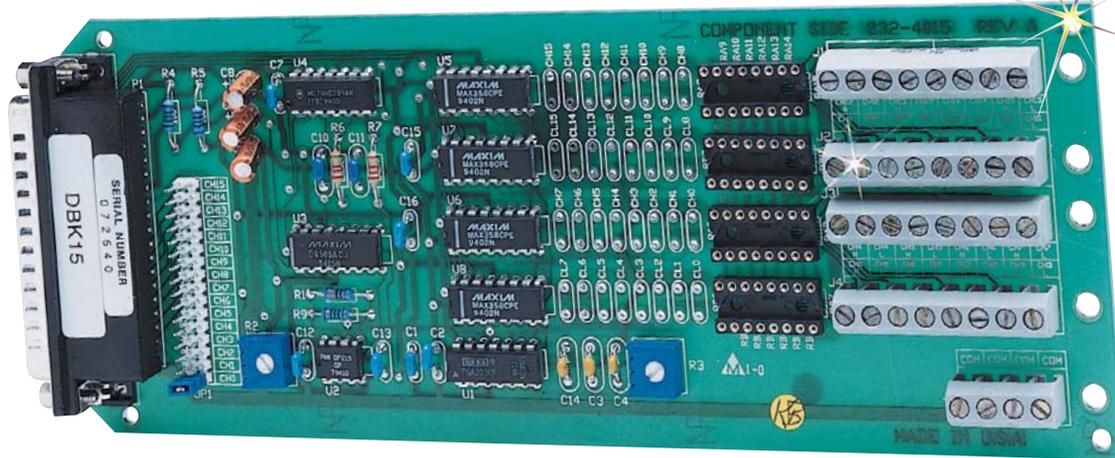


# OMB-DBK15

## Universal Current/Voltage Input Card for OMB-LOGBOOK and OMB-DAQBOARD-2000 Series



Model OMB-DBK15

**\$649**



- ✓ Ideally Suited for 4 to 20 mA Measurements
- ✓ Can Measure up to  $\pm 30$  V\*
- ✓ Provides 16 Differential Input Channels
- ✓ Offers User-Configurable Current or Voltage Input

Each OMB-DBK15 multiplexing input card provides sixteen channels of current or voltage input to OMEGA's OMB-LOGBOOK and OMB-DAQBOARD-2000 Series data acquisition systems. An OMB-LOGBOOK or OMB-DAQBOARD-2000 Series can accept up to 16 OMB-DBK15 cards, for a total of 256 potential analog input channels per system.

The OMB-DBK15 features a 16-channel multiplexer and a programmable gain input amplifier. Its durable component sockets accept resistors that configure each channel for either current-to-voltage conversion or for voltage attenuation.

\*  $\pm 10$  V to 30 V input signals can be measured by installing attenuation resistors on the card

The OMB-DBK15, \$649, universal current/voltage input card, shown smaller than actual size

The OMB-DBK15 is supplied with sixteen precision 250 ohm resistors for making 4 to 20 mA measurements, and sixteen sets of 6:1 voltage dividers for accommodating up to  $\pm 30$  V\* inputs.

The OMB-DBK15 can also accept other, user-supplied resistor values, facilitating user-selectable current-to-voltage conversion or voltage attenuation factors.

When employed without resistors, the OMB-DBK15 provides sixteen differential voltage inputs, which accommodate  $\pm 5$  V full scale inputs.

The OMB-DBK15's input amplifier is software programmable for x1 or x2 gain per channel, and for unipolar 0 to +10 V or bipolar -5 to +5 V input per channel.

**Voltage Measurements.** The OMB-DBK15 accommodates voltage measurements beyond the standard 10 V range, accepting voltage divider resistors for up to  $\pm 30$ \* VFS inputs. You can obtain any combination of input ranges by simply installing the appropriate resistor combination on the OMB-DBK15 card. The card's on-board programmable gain instrumentation amplifier (PGIA)

can be set for a  $\pm 5$  V output span or a 0 to +10 V output span, allowing users to set the OMB-LOGBOOK and OMB-DAQBOARD-2000 Series for either configuration.

### Current Measurements.

The OMB-DBK15 is ideal for accommodating transducers with 4 to 20 mA output; one need only install the 250 ohm resistors provided in the appropriate location on the board.

### SPECIFICATIONS

**Connector:** DB37 male, mates with P1 pinout on the OMB-LOGBOOK and OMB-DAQBOARD-2000 Series; screw-terminals provided for signal connection

**Gain Ranges:** x1, x2

**Number of Channels:** 16 differential

**Voltage Input Ranges:** 0 to +10 Vdc,  $\pm 5$  Vdc (less attenuating resistors)

**Current Input Range:**  $\pm 20$  mA max

**Gain Accuracy:**  $\pm 0.05\%$  typ;  $\pm 0.25\%$  max

**Maximum Input Voltage (without damage):**  $\pm 35$  Vdc

**Cables:** Use OMB-CA-37-x with OMB-LOGBOOK and OMB-DAQBOARD-2000 Series

**AVAILABLE FOR FAST DELIVERY!**

To Order (Specify Model Number)		
Model Number	Price	Description
OMB-DBK15	\$649	Universal Current/Voltage Input Card

Ordering Example: OMB-DBK15 universal current/voltage input card, \$649.

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