

# OMB-DBK44

## 2-Channel Multi-Purpose Isolated Signal Conditioning Card for OMB-LOGBOOK and OMB-DAQBOARD-2000 Series

Model OMB-DBK44

**\$319**



- ✓ Accepts Two OM5 Isolated Input Signal Conditioning Modules of Any Type
- ✓ Features On-Board Screw-Terminal Signal Connections

The OMB-DBK44 two-channel multi-purpose isolated signal conditioning card allows OMEGA's OMB-LOGBOOK and OMB-DAQBOARD-2000 Series data acquisition systems to accommodate two optional OM5 isolated signal conditioning modules of any type\*. Each user-configurable signal conditioning module offers 500 V isolation from the system and from other channels. It can accommodate an array of signals—from low-level thermocouple signals to strain gage signals.

The OMB-DBK44 features screw terminals that provide access to each channel's analog inputs, as well as to the excitation output if the card is used with a strain gage or RTD module. In addition, each OMB-DBK44 channel has a cold-junction sensor mounted adjacent to each screw terminal block. This permits OM5 thermocouple modules to output linearized and compensated temperature.

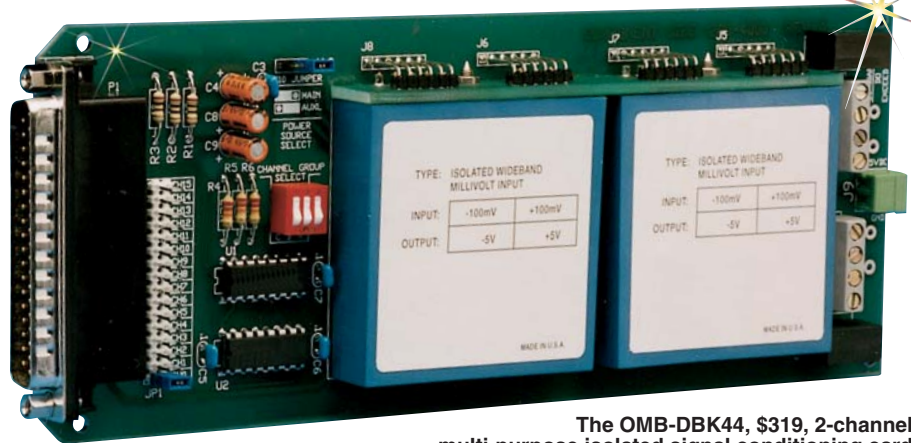
### Expansion Enclosures

The OMB-DBK44 can be housed in a variety of ways, such as in the OMB-DBK10 three-slot expansion-card enclosure, the OMB-DBK41 ten-slot analog expansion module, or within the expansion slot of an OMB-DAQBOOK-112 or OMB-DAQBOOK-216.

### Powering the OMB-DBK44

The OMB-LOGBOOK and OMB-DAQBOARD-2000 Series

\*OM5 modules must be purchased separately.



The OMB-DBK44, \$319, 2-channel multi-purpose isolated signal conditioning card

can provide power for the OMB-DBK44 via their P1 connectors. The OM5 modules used with the OMB-DBK44 typically require 5 V at 30 mA minimum, and can demand up to 175 mA in applications requiring excitation voltages.

An external 5 V power supply may be required if the power requirements exceed the data acquisition system's power output. The external 5 V source is connected to the OMB-DBK44 via on-board screw terminal connections.

Please note that for applications that demand more than four isolated channels, it is more economical to use the OMB-DBK42 sixteen-channel isolated module.

### Specifications

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

### User Connections:

- 4 screw-terminals/channel;
- 2 screw-terminals for external 5 Vdc

### ISOLATION

**Input Power to DAQ System:** 0 V

**Signal Inputs to DAQ System:** 1500 Vdc

**Input Channel-to-Channel:** 500 Vdc

**Signal Modules:** Any OM5 series input module; cold-junction sensors for T/C modules are located by each channel terminal block; plug-in locations for Current Loop sensing resistors are provided for each channel

**Module Capacity:** 2 (input only) OM5 modules

**Weight:** .25 kg (8 oz) with no modules installed

**DC Input Fuse:** 4 A

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

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To Order (Specify Model Number)		
Model Number	Price	Description
OMB-DBK44	\$319	2-Channel Multi-Purpose Isolated Signal Conditioning Card

**Ordering Example:** OMB-DBK44 2-channel multi-purpose isolated signal conditioning card, \$319.

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