

# OMB-DBK42

## 16-Slot Multi-Purpose Isolated Signal Conditioning Module for OMB-LOGBOOK and OMB-DAQBOARD-2000 Series



Model OMB-DBK42

**\$999**



The OMB-DBK42, \$999, allows the OMB-LOGBOOK or OMB-DAQBOARD-2000 Series to accommodate up to sixteen OM5 Isolated Input Signal Conditioning Modules

- ✓ Accepts Any Combination of up to Sixteen OM5 Isolated Input Signal Conditioning Modules
- ✓ Features Rugged All-Metal Construction for Portable Applications

The OMB-DBK42 sixteen-slot OM5 signal conditioning module allows TRODEKS's OMB-LOGBOOK or OMB-DAQBOARD-2000 Series data acquisition systems to accommodate any combination of up to sixteen OM5 input signal conditioning modules\*. Each user-installable signal conditioning module offers 500 V isolation from the system and from other channels.

A single cable connects the OMB-DBK42's output to your data acquisition device. One OMB-LOGBOOK or OMB-DAQBOARD-2000 Series module can support up to sixteen OMB-DBK42 units, providing a total of 256 isolated analog input channels.

### Powering the OMB-DBK42

The OMB-DBK42 can obtain its input power from a number of sources: an included AC adaptor, an optional OMB-DBK30A rechargeable battery/ excitation module, or directly from a 12 Vdc source, such as an automobile battery. The OMB-DBK42 has a

built-in DC/DC converter capable of powering a full complement of OM5 modules even when the unit is fully outfitted with strain gage modules with bridge excitation on every channel.

### Signal Connections

The optional OMB-CN-71 and OMB-CN-72 signal connection blocks provide a convenient way of connecting analog signals to the OMB-DBK42. The OMB-CN-71 connection block is for non-thermocouple applications, while the OMB-CN-72, which features cold-junction sensors, is for thermocouple applications. Each block contains 4 terminals per channel, providing access to both the OM5 modules' input and excitation output features.

### Specifications

**Connector:** DB37 male, mates with P1 pinout on the OMB-LOGBOOK or OMB-DAQBOARD-2000 Series

**Module Capacity:** 16 (input only) OM5 modules

**Power Requirements:** 10 to 24 Vdc or 120 Vac with included adaptor

**With 16 T/C type modules:**

12 Vdc @ 0.50 A

15 Vdc @ 0.40 A

**With 16 strain gage type modules:**

12 Vdc @ 1.9 A

15 Vdc @ 1.5 A

**Power Connection:** DIN5 x2 for daisy chaining

**AC Power Packs:** 120 Vac to 15 Vdc @ 0.9 A

120 Vac to 24 Vdc @ 2.0 A (optional)

**Input Connections:** DIN96 rectangular standard screw-terminal connection block (optional)

**DC/DC Converter:** 10 to 24 Vdc to 5 Vdc (isolated)

### Isolation

**Input Power to System:** 500 Vdc

**Signal Inputs to System:** 1500 Vdc

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

### Dimensions:

221 x 285 x 91 mm (8.5 x 11 x 3.5")

285 x 285 x 91 mm (11 x 11 x 3.5") with optional signal connection block

495 x 254 x 91 mm (19 x 9.75 x 3.5") with optional OMB-DBK1 rack mount kit installed

**Weight:** 1.8 kg (4 lb) with no modules installed

**AVAILABLE FOR FAST DELIVERY!**

### To Order (Specify Model Number)

| Model Number | Price | Description  |
|--------------|-------|--|
| OMB-DBK42    | \$999 | 16-Channel OM5 Expansion Module including AC adaptor with Fastener Panel |
| OMB-CN-71    | 103   | 16-Channel Screw Terminal Connection Block                               |
| OMB-CN-72    | 369   | 16-Channel Screw Terminal Connection Block with Cold-Junction Sensors    |

**Ordering Example:** OMB-DBK42 is a 16-channel OM5 expansion module, \$999.

\* OM5 modules sold separately