

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 OMEGA'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



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters