OMB-DBK50 and OMB-DBK51 8-Channel Isolated Voltage-Input Modules for OMB-LOGBOOK and OMB-DAQBOARD-2000 Series



Offers Bipolar Input Ranges: OMB-DBK50 10 V, 100 V, and 300 V Full Scale Input OMB-DBK51

100 mV, 1 V, and 10 V Full Scale Input

The OMB-DBK50 and the OMB-DBK51 are eight-channel, isolated voltage-input modules that allow OMEGA's OMB-DAQBOARD-2000 Series and OMB-LOGBOOK data acquisition systems to isolate up to eight channels of analog input. Both the OMB-DBK50 and OMB-DBK51 modules offer 750 V isolation from channel-to-channel and 1250 V isolation from channel-tosystem. Up to 32 modules can be connected to one OMEGA's OMB-DAQBOARD-2000 Series or OMB-LOGBOOK data acquisition for up to 256 isolated input channels.

Isolated Signal Connections

Each channel features a disconnectable screw terminal block that provides access to the analog inputs.

Power

The OMB-DBK50 and OMB-DBK51 include built-in DC/DC converters, allowing them to be operated from a

The OMB-DBK50, \$2079 and OMB-DBK51, \$2079, each offer eight channels of analog input via removable screw-terminal plugs

variety of external power sources. The units can draw power from their included AC adaptors; the optional OMB-DBK30A rechargeable battery module; a car battery; or any +9 to +20 Vdc source.

Input Amplifier

The OMB-DBK50's input amplifiers provide input ranges for 10 V, 100 V, and 300 V bipolar signals. The OMB-DBK51's input amplifiers provide input ranges for 100 mV, 1 V, and 10 V bipolar signals. These ranges are software programmable, allowing you to change ranges without having to access internal range-set jumpers or switches. The input amplifiers also provide a zeroed input range, which allows you to incorporate auto-zero and temperature drift compensation in your data acquisition applications.

Bandwidth Filter

The OMB-DBK50 and OMB-DBK51 provide a selectable 3.5 Hz, low-pass filter on each channel. You can change the corner frequency by plugging in a different standard resistor network. In addition, you can bypass the low-pass filter entirely, for a bandwidth of 20 kHz.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model Number	Price	Description
OMB-DBK50	\$2079	8-Channel Isolated High Voltage-Input Module
OMB-DBK51	2099	8-Channel Isolated Low Voltage-Input Module
Ordering Example: OMP_DBK51 & channel isolated low voltage input module \$2000		

Ordering Example: OMB-DBK51 8-channel isolated low voltage-input module, \$2099

Specifications

Connector: DB37 male, mates with P1 pinout on the OMB-LOGBOOK or with the OMB-DAQBOARD-2000 Series Inputs: Removable screw terminal block Channels: 8, individually isolated Isolation: Channel-to-Channel: 750 V Channel-to-System: 1250 V Input Impedance: **ΟΜΒ-DBK50:** 1 MΩ **OMB-DBK51:** >10 MΩ **Bipolar Input Ranges:** OMB-DBK50: ±10 V, 100 V and 300 V OMB-DBK51: ±100 m V, 1 V and 10 V Output Voltage Range: ±5 Vdc Accuracy: 1% of range (without offset correction) 0.2% of range (with offset correction) Offset: ±50 mV Max Noise: <5 mV p-p (with filter) <50 mV p-p (without filter) Temp. Coefficient: 0.2 mV/°C Bandwidth: 20 kHz (LPF bypassed) Low-Pass Filter: Factory installed 3-pole, 3.5 Hz (by-passable or user set) **Operating Power Voltage Range:** 9 to 20 Vdc Module Power Requirements: 7.5 W Included AC Adaptor: 15 Vdc @ 0.9 A Dimensions: 221 x 285 x 36 mm (8.5 x 11 x 1.375") Weight: 1.7 kg (4 lb)

omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



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 +44-(0)161-777-6611

> FRANCE www.omega.fr 0800-466-342

BENELUX www.omega.nl 0800-099-33-44



More than 100,000 Products Available!

Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, 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, Thermocouple Wire, RTD Probes

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

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ehernet 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, Pressure Transmitters, Strain Gauges, 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