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 TRODEKS'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 TRODEKS'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: OMB-DBK51 8-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)