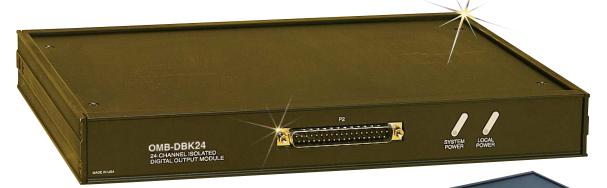
OMB-DBK24
24-Line Optically Isolated Digital-Output
Module for OMB-LOGBOOK and
OMB-DAQBOARD-2000 Series

Model OMB-DBK24









OMB-DBK24, \$549, front view, shown smaller than actual size

- Optically Isolated Outputs up to 60 Vdc
- ✓ 500 V Channel-to-Channel Isolation
- ✓ Expandable to 192 **Digital Lines**

The OMB-DBK24 is a 24-line digitaloutput module that provides isolated digital outputs for OMEGA's OMB-LOGBOOK and OMB-DAQBOARD-2000 Series data acquisition systems. The OMB-DBK24 provides 500 V of channel-to-channel and 500 V of channel-to-system optical isolation for complete system protection. This isolation protects the data acquisition system from damage caused by accidental contact with high external voltages and eliminates troublesome ground loops. Up to eight OMB-DBK24

modules can be connected to one

system, for a total of 192 digital outputs.

Connections

The OMB-DBK24 connects to a system's P2 digital I/O connectors and uses the existing digital I/O lines as a communications bus. Thus, the lines on a system's digital I/O connectors are not user accessible when an OMB-DBK24 is in use. The OMB-DBK24 can be daisychained with other OMB-DBK digital I/O cards or modules via optional expansion cables. Signal connections to the OMB-DBK24 are made via screw terminals. which are conveniently located on its slide-out PC board.

Power-On-Reset

The module features a power-on-reset function, allowing users to set the outputs to either "on" or "off" prior to start-up. Each power up output state is determined by dip-switch settings prior to the first write command to the module.

OMB-DBK24, \$549, rear view,

shown smaller than actual size

Power

The OMB-DBK24 is equipped with an internal power supply and external AC adaptor. It can also be powered from an OMB-DBK30A battery module, a 12 V car battery, or from any 9 to 24 Vdc source.

Specifications

24 optically isolated digital-output channels programmable in 8-bit groups Connector: DB37 male, mates with P2 pinout on an OMB-LOGBOOK or OMB-DAQBOARD-2000 Series (attachment to the DAQBOARD's P2 further requires an optional OMB-CA-60 cable)

Output Channel Ratings:

Maximum Current/Channel: 1 A Voltage Drop @ 1 A and 25°C: 1 V **Maximum Open Circuit Voltage:** 60 Vdc

Off-State Leakage: 10 µA

Module Power Requirements:

1.5 W; AC adaptor included Indicators: Local power & system power LED

Controls: Power on/off

Power-On-Reset State: Following power-up, the state of each output is determined by dip-switch settings prior to first write command to the module Isolation Voltage: 500 V

Maximum Module Power Dissipation:

12 W @ 25°C. 6 W @ 50°C

Dimensions: 221 x 285 x 35 mm

(8.5 x 11 x 1.375")

Weight: 1.3 kg empty (3 lb)

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model Number	Price	Description
OMB-DBK24	\$549	24-Line Optically Isolated Digital-Output Module

Ordering Example: OMB-DBK24 is a 24-line optically isolated digital-output module, \$549.

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