

- **USB-16ISO**
- **USB to 16 isolated inputs digital device**



➤ Digital monitoring from USB

The USB-16ISO is a USB solution for digital monitoring. Enclosed in a small rectangular enclosure, it is used where plug-in boards with isolated inputs is not an option, as in such situations as no more computer slots available, interrupt conflicts, the need to be remote from the computer and in laptops or mobile computers. The USB-16ISO with its 5 to 24VAC/DC range is excellent in monitoring applications including switches, pushbuttons and sensors used in test equipment, instrumentation, security monitoring systems, broadcast studios, medical equipment and many other industrial applications.

Its 16 digital inputs provide optical isolation to protect the PC and other sensitive equipment from spikes and ground loop current that can be generated in industrial

environments. The USB-16ISO is the perfect choice for integrating unattended status monitoring equipment, and fall-back network switching circuits.

The USB-16ISO offers the same features as our ISA 16ISO and PCI-16ISO except with a larger default voltage range of 0 to 24VAC/DC voltage range and its ability to easily connect up to any standard computer USB port. Unlike the plug-in boards, it uses no interrupts and has hot-swap capability in all Plug-n-Play Windows OS, plus future support in any OS that supports USB. Our unique serial string naming feature allows multiple USB digital I/O devices to retain their specific identity within the system. Onboard removable screw terminals are provided at no extra charge to simplify wiring connections.

- **Hot-swapping/auto configuration**
- **16 optically isolated AC or DC inputs (5 to 24VAC/DC range)**
- **Onboard removable screw terminals**
- **Compatible with third party PC-based control programs**
- **Serial string allows individual device naming and configuration**
- **No external power required (USB port only)**
- **USB supported OS software drivers for Windows®98/2000/Me/XP**

► USB-16ISO - Technical Specifications

Channels

- 16 inputs

Input Range

- 5 to 24VDC or AC

Isolation Type

- Non-polarized, optically isolated from each other and from the computer

Input Current

- 60mA (max.)

Interrupts

- None beyond USB port

Interface

- USB, V1.1 compliant

Connector

- Two removable 16-screw terminals on each side of enclosure (two contacts per isolated input)

Dimensions

Overall Length

- 6.97-inch (177mm)

Box Width

- 5.32-inch (135mm)

Width with Terminals

- 6.23-inch (158mm)

Height

- 1.5-inch (38mm)

Height with Bumpers

- 1.58-inch (40mm)

Weight

- 14.4oz (408.2g)

Power Requirements

- +5VAC @ 500mA

Environmental

Operating Temperature

- 0 ° to 70 °C (32 ° to 158 °F)

Non-Operating Temperature

- -20 ° to 70 °C (-4 ° to 158 °F)

Humidity

- 10 to 90% RHNC (max.)

MTBF

- >150,000hrs (calculated)

Agency Approvals

- CE Marked

OS Support

- Windows®98/2000/Me/XP USB to I/O support

Support

- Superior pre- and post sales technical support
- Two year limited warranty

Ordering Guide

USB-16ISO

- 16 isolated inputs from USB, USB cable, manual CD & software CD



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