

# MSSR-32

## 32-Channel Solid State I/O Module System For the METRABUS

### FEATURES

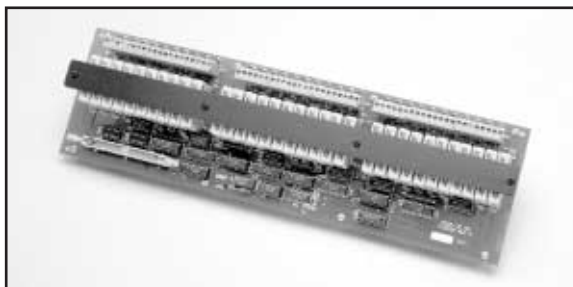
- Color coded industry standard modules
- Allows up to 512 I/O modules per single METRABUS drive board
- Controls up to 3 Amps AC or DC
- Senses AC or DC inputs
- 4000 Volts of optical isolation
- Easily mounted in standard 19-inch racks and NEMA enclosures
- Detachable screw terminals greatly reduce field wiring and replacement time
- LED status indicators

### APPLICATIONS

- Energy management
- Process and production control
- Motor control
- Limit switch and relay condition monitoring

### Functional Description

Keithley's MSSR-32 is a 32-channel digital I/O interface for the METRABUS industrial data acquisition and control family. Up to 32 industry standard miniature solid state I/O modules can be mounted on a single board. The MSSR-32 rack uses 4 consecutive addresses in the 64-bit METRABUS address space. This allows up to 16 MSSR-32 boards (512 I/O points) to be connected to a single METRABUS driver card.



The mssr-32 is divided into four 8-bit ports. Modules can be installed in any combination of inputs and outputs (though programming is simplified if only one type of module is used in any one MSSR-32 8-bit port). Available modules include 120VAC inputs and outputs as well as 10-30VDC or VAC inputs and 0-60VDC outputs

The MSSR-32 uses 5 volt power only, and one or two MSSR-32s can be operated directly from the host computer's power supply. For larger systems a MBUS-PWR power supply should be installed.

### SPECIFICATIONS

#### METRABUS ADDRESS SPACE

4 consecutive addresses

#### POWER REQUIREMENTS

+5V: 700mA typ, 840mA max  
±15V: Not used

#### MODULE OUTPUT CURRENT

Modules rated at 3A max with 5A overload protection fuses on MSSR-32

#### ISOLATION

4000V rms

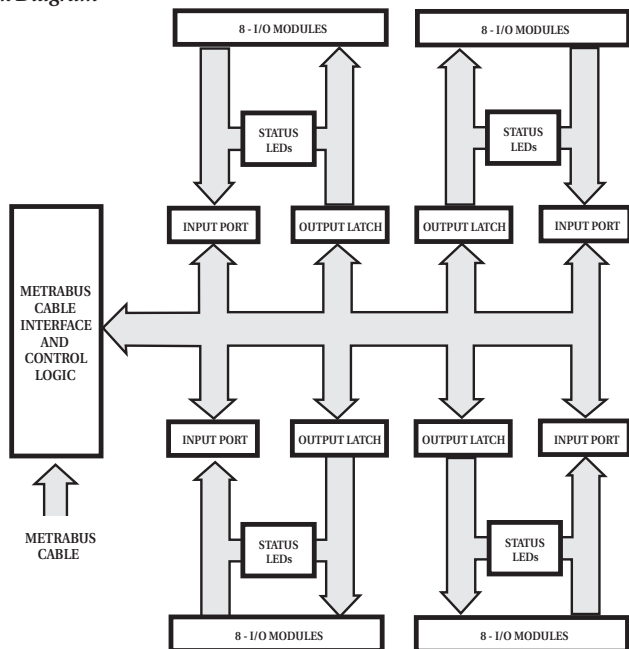
#### PHYSICAL

**DIMENSIONS:** 16in × 4.75in (40.63cm × 12.06cm)  
**OPERATING TEMP:** 0 to +70°C  
**STORAGE TEMP:** -20 to 100°C  
**HUMIDITY:** 0 to 90% non-condensing

#### AVAILABLE MINIATURE SOLID STATE I/O MODULES

- SM-ODC5: Control 3 to 60VDC at 3 Amps
- SM-OAC5: Control 12 to 140VAC at 3 Amps
- SM-OAC5R: Control 12 to 140VAC at 3 Amps (inductive load)
- SM-ODC5A: Control 5 to 200VDC
- SM-OAC5A: Control 24 to 280VAC
- SM-IAC5: Sense 90 to 140VAC/VDC
- SM-IAC5A: Sense 180 to 280VAC/VDC
- SM-IDC5: Sense 3.3 to 32VDC

### Block Diagram



### QUESTIONS?

1-800-552-1115 (U.S. only)

Call toll free for technical assistance, product support or ordering information, or visit our website at [www.keithley.com](http://www.keithley.com).

### ORDER DESCRIPTION

MSSR-32 METRABUS 32-Channel Solid State I/O Module System