

# EMS-SIO-3-AS

## Enhanced Alarm & Monitoring System Panel



### Overview

The EMS-SIO-3-AS is a modular smart I/O interface device designed and optimized for a wide variety of Telecom monitoring environments when integrated with Tridium's family of Telecommunications Site Managers (EMS-SM-PJ-545-AX and EMS-SM-SC-545-AX).

### Features

- 8 Analog Inputs/32 Digital Inputs/2 Digital Outputs
- Factory configured to accommodate many common applications
- Pre-wired temperature & humidity sensor to reduce installation time (re-locatable if desired)
- Easy to wire utilizing industry standard removable terminal blocks and industry standard connectors
- Common Ground to avoid ground loops/faults power feeds

### Specifications

#### Optimized Power Inputs and Auxiliary Power Distribution for Ancillary Monitoring Devices

- Two (2), 48Vdc (Nominal) Power Inputs (Individually Fused & Resettable, 2A each) for redundancy
- Three (3), 48Vdc (Nominal) Power Outputs (2A Total) for convenient powering of other monitoring devices
- One (1), 24 VDC (625mA) Power Outputs for convenient powering of other monitoring devices

#### 8 Isolated Analog Input (AI) Channels:

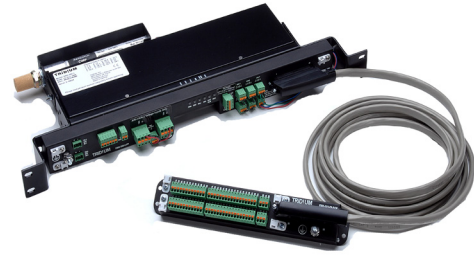
Each channel can be individually factory or field modified to accommodate the following input types: 0-60VDC, 4-20mA Loop Powered, 4-20mA Self Powered or 0-5VDC. Default Factory Settings are as follows:

- AI 1 & 2: Factory Wired Analog Battery Voltage Inputs – (Signal from DC Power Input Feeds, 0-60VDC)
- AI 3, 4, 5 & 6: Factory configured for 4-20mA Loop Powered, 4-20mA Self Powered or 0-5VDC
- AI 7 & 8: Factory Wired Environmental Points via Integrated EMS-ENV-1220 industrial Temperature (-40 – 85°C) and Humidity Transmitter (5 – 95% Relative Humidity)

#### 32 Isolated Digital Input (DI) Channels

- Each DI (1-32) Monitors Dry Contacts, Normally Open (NO) or Normally Closed (NC) Individually Configurable in the Site Manager Software
- DI's are connected via a standard 50-PIN telecom male connector (Centronics)
- Connector Accessories Include :

- « EMS-SIO-DI-BOP: 32 DI Breakout Panel for EMS-SIO-3-FP, provides spring loaded wire terminals for ease installation
- « EMS-CBL-BOP-15: 15 Ft Centronics Double Connector Cable Between EMS-SIO-3-AS and EMS-SIO-DI-BOP
- « EMS-SIO-3-50DICBLE: 50 Ft Centronics Cablemate with Flying Leads for use with existing termination devices
- « EMS-DI-CBL-EXT50 50 Ft Centronics Dual Connector Extension Cable



**2 Digital Output (DO) Channels**

- 2 dry form “C” digital output relays, providing Normally Open, Normally Closed and Common connections

**Communications**

- RS-232 connected to a Site Manager

**Power Requirements**

- 24 to 60Vdc, (Unit has an internal 2 amp auto-resettable fuse)
- Max Consumption: 20 watts

**Chassis**

- Construction: 18-Gauge steel chassis
- Cooling by air convection
- Dimensions: 14” (355.60mm) wide x 4.30” (109.22mm) deep x 1.750” (44.45mm) high
- Weight: Net 3.2 lbs. (1.5 kg)
- CLEI Code: SUMYAAZCRA

**Environment**

- Operating temperature range: -40° to 50°C (-40°F to 122°F)
- Storage temperature range: -50° to 85°C (-58°F to 185°F)
- Relative humidity range: 5% to 95%, non-condensing

**Agency Listings**

- CE: European EMC Directive
- RoHS
- WEEE (Waste of Electrical Electronics Equipment)

**Ordering Information**

Part Number	Description
EMS-SIO-3-AS	48 VDC Smart I/O; 1URack, 2-Bat AI, 6-AI, 32 DI, 2 DO & EMS-ENV1220 Temp Humidity Transmitter Assembled & Pre-Wired