Site Alarm Module (SAM)

Site Alarm Module, programmable alarm monitor.
Optional for Antenna System Monitor (ASM) product range
SAM0000

The Site Alarm Module (SAM) is an optional module used with the Antenna System Monitor (ASM) to allocate a dedicated alarm output for up to any ten (10) channels being monitored by the ASM. Up to ten (10) SAM's can be easily added (daisy-chained) onto one ASM to increase the number of monitored channels with dedicated alarm outputs. Site Alarm Modules (SAM) and Channel Alarm Modules (CAM) may be mixed on one ASM if desired. The ASM auto-detects SAM modules when they are connected, and through the GUI (Graphical User Interface) of the ASM the user can configure which of the SAM outputs are assigned to respective ASM monitored channels. Conditional alarm status is a feature that allows the individual base station PTT lines to be compared with the ASM channel alarm status, allowing a "no RF output" from the base station to be recognised and raise an alarm event. Four (4) additional "general purpose" alarm inputs are also available on each SAM to monitor site alarms - such as temperature, battery voltages, site access doors and other site conditions. Front and rear LED's provide a visual indication of the status of all 10 output and 4 input alarm states.

Features

- User assigned 10-Ch alarm relay module
- Auto detected by ASM when connected
- Conditional PTT status alarm reporting
- Compact 1RU 19" rack mountable shelf.
- Expandable to a total of 10 SAM's (and CAMs) per ASM - each monitoring up to 10 Channels.
- Latched alarm outputs for Hot/Standby base station and Auto-Change Over (ACO) antenna control
- Up to 10 user configurable, PTT activated or general purpose logic alarm inputs
- Up to 4 user configurable, general purpose temperature, analogue or logic alarm inputs
- Communications interface and power daisy-chained between ASM and respective SAM's
- Front and rear alarm relay activation notification LED's

FRONT VIEW

REAR VIEW

Specifications

Model Number	SAM0000
Alarm outputs	10
Alarm contact type	Dry Relay N.O. / Common / N.C.
Alarm contact rating - max	50VDC 1A
Alarm inputs	10 (configurable - PTT by channel, or individual general purpose digital inputs)
	4 (configurable - general purpose temperature, analogue and digital inputs)
Alarm inputs (refer manual for detailed explanation)	
PTT or digital logic:	"0" = <2.5VDC "1" = > 2.5VDC
Temperature:	-67° to +257° F *or* -55° to +125° C
Analogue:	0VDC to +5VDC *or* +60VDC to -60VDC *or* +5VDC to -60VDC
Visual alarm notification	Front and Rear panel mounted LED's
Power Supply options (ASM - daisy chained)	9-36VDC or 36-60VDC
Connectors	Note: All connectors on rear
External Alarm inputs:	1 x Polarized 8-pin Phoenix connector
Channel Alarm Outputs:	10 x Polarized 3-pin Phoenix connector
Channel Alarm Inputs:	10 x Polarized 2-pin Phoenix connector
Power Supply:	2 x Polarized 2-pin Phoenix connector
Comms Interface:	2 x DB15 (M)
Mounting	1RU 19" Rack mounting
Dimensions	W 483 x H 45 X D 77mm / W 19 x H 1.75 x D 3"
Weight	<1kg / < 2.2lbs
Operational temperature range	-30 °C to + 60° C / -22°F to 140°F

Ordering information

Model Number	Description
SAM0000	Site Alarm Module, 10 PTT activated or individual general purpose Inputs, 4 External Alarm Inputs, 9-36VDC
SAM0000-48	Site Alarm Module, 10 PTT activated or individual general purpose Inputs, 4 External Alarm Inputs, 36-60VDC

Site Alarm Module (SAM)

Site Alarm Module, programmable alarm monitor.
Optional for Antenna System Monitor (ASM) product range
SAM0000

APPLICATION DIAGRAM