

SiteSure



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SiteSure Components

	Digital Inputs	Analog Inputs	Digital Outputs	Current Inputs	Temperature Inputs
SiteSure General Purpose Module (SSGP):	6*	6**	-	-	-
SiteSure Digital Input Module (SSDI):	12	-	-	-	-
SiteSure Digital Output Module (SSDO):	-	-	8	-	-
Current Input Module (IOM-CS):	1	-	-	6	1

* 2 configurable as frequency inputs ** 2 configurable as temperature sensors

Input/Output Specifications

Digital Input	Open/Closed circuit	-	-	Sample rate 500ms
Analog Input	Range 0 - 10V	Resolution <2.5mV (12 Bit)	Accuracy $\pm 0.5\%$	Sample Time 500ms
Frequency Input	Range 40 - 70Hz Open/closed circuit (open collector)	Resolution <0.1Hz	Accuracy $\pm 0.1\text{Hz}$	Min. pulse duration 1ms
Temperature Inputs	Range 0 - 5V	Resolution <1.25mV	Accuracy $\pm 0.5\%$	Sample time 500ms
Current Shunt Inputs	Range -75 - +75mV	Resolution <40 μV	Accuracy $\pm 0.5\%$	Sample time 500ms
Digital Outputs	Max. current 1A	Max. voltage 100V	Max. power 30W	Relay operation latency 100ms

Environmental Requirements

Ambient Temperature	
Rated Operating Range:	-10°C to +60°C [14°F to 140°F]
Extended Operating Range:	-10°C to +80°C [14°F to 176°F]
Humidity:	<95%RH (non-condensing)

Mechanical

Dimensions H, W, D:	80mm [3.15"], 27mm [1.06"], 65mm [2.60"]
Mounting:	DIN rail

System Configuration

Maximum Inputs and Outputs per System* (total for all modules)

	SM30	SM50	SM40/SM60	SM45/SM65
Analog Inputs*:	6	50	12	48
Digital Inputs:	12	50	18	108
Digital Outputs:	8	32	12	32
Frequency Inputs:	4	-	-	-

* Temperature inputs are considered as analog inputs.

Note: Eaton supervisory modules also provide additional inputs and outputs. Refer to the appropriate supervisory module datasheet or Application Note AN0039: Supervisory Module Comparison Matrix.

Maximum SiteSure modules per system

	SM30	SM50	SM40/SM60	SM45/SM65
SSGP and IOM-CS:	6	16	16	16

4 x SSDI and 2 x SSDO can be connected to each SSGP or IOM-CS. Addresses are set manually with jumpers.

Note: Auxiliary Power Module (APM) required with SSDO or if more than one SSGP or IOM-CS is to be connected to supervisory modules. Refer to Application Note AN0020: RS-485 (RCP) Bus Design.

Location

The maximum distance SiteSure modules can be located from a Eaton DC power system depends on the number of modules and the system configuration. Refer to Application Note AN0020: RS-485 (RCP) Bus Design.

Compliances

Safety:	EN60950, AS/NZS 3260, UL 1950
EMC – immunity	
Electrostatic discharge:	EN 61000-4-2
Radiated radio frequency:	EN 61000-4-3
Electrical fast transients:	EN 61000-4-4
Surge:	EN 61000-4-5
Conducted radio frequency:	EN 61000-4-6
EMC – emissions	
Radiated emissions	EN 55022, CISPR 22

Certifications

Europe:	CE-mark
North America:	UL, FCC Verification, IC
Australia/New Zealand:	C-tick

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