

10-1009



The SAGEON® Site Monitor (SSM) is an auxiliary module for the SAGEON® family of DC Power Systems. The SSM provides additional I/O for the power plant, enabling users to monitor the status of additional equipment through the SAGEON® system. The SSM includes twelve digital inputs and eight analog inputs for monitoring devices such as site security (door and window magnetic switches), AC inverter status and alarms, Generator status (fuel level & oil pressure) and HVAC status and alarms. Also included are four voltage free (dry) Form C control output relays. The control relays can be automatically activated in response to an event on any of the SSM's user configurable digital or analog inputs or manually activated from a PC running UNIPOWER's SageView® software.

Alarms are readable by SageView®, Network Management Software or SCADA system.

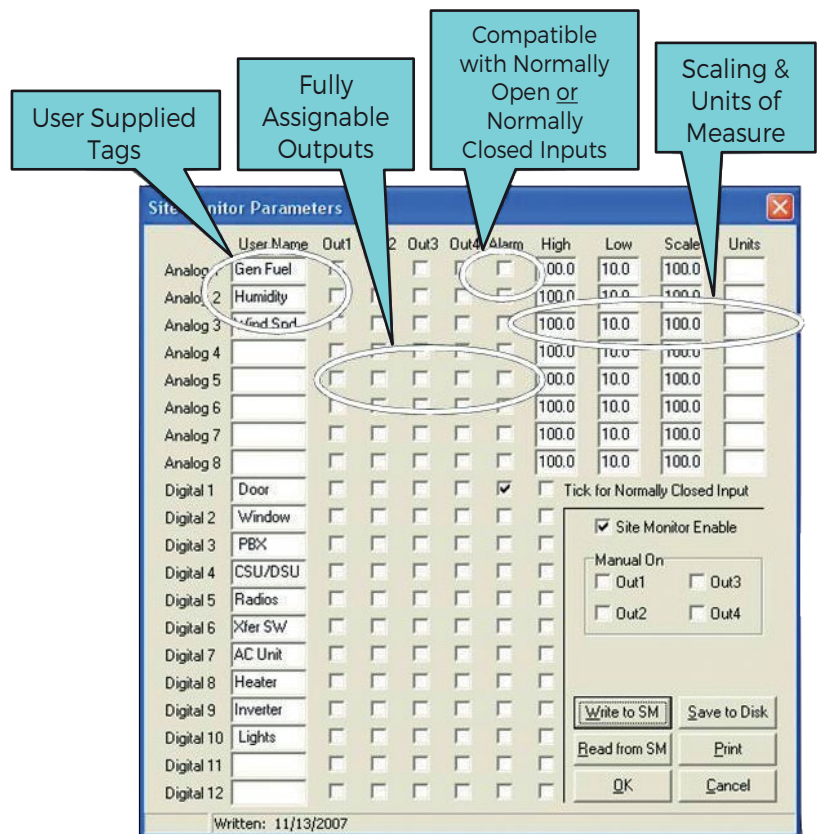
The SSM is easily configured using UNIPOWER's SageView® software program included with each SAGEON® DC Power Plant. The Site Monitor configuration screen (shown below) provides a simple, intuitive user interface.

## APPLICATIONS

The SSM provides a simple, integrated solution to many common application challenges eliminating the need to purchase separate monitoring equipment. Using its remote communication capabilities and C&D Technologies SageView® software, the SAGEON® system can be remotely monitored, allowing the appropriate response to site events.

Typical applications include:

- Integration of site alarms
- Integration of Inverter status
- Individual load monitoring
- Integration of auxiliary equipment status



The screenshot shows the 'Site Monitor Parameters' configuration window. It features a table for configuring 12 digital and 8 analog inputs, and 4 digital outputs. Callouts highlight the following features:

- User Supplied Tags:** Points to the 'User Name' column where 'Gen Fuel' and 'Humidity' are entered.
- Fully Assignable Outputs:** Points to the 'Out1' through 'Out4' columns.
- Compatible with Normally Open or Normally Closed Inputs:** Points to the 'Alarm' column and the 'Tick for Normally Closed Input' checkbox.
- Scaling & Units of Measure:** Points to the 'High', 'Low', 'Scale', and 'Units' columns.

	User Name	Out1	Out2	Out3	Out4	Alarm	High	Low	Scale	Units
Analog 1	Gen Fuel					<input type="checkbox"/>	100.0	10.0	100.0	
Analog 2	Humidity					<input type="checkbox"/>	100.0	10.0	100.0	
Analog 3	Wind Spd					<input type="checkbox"/>	100.0	10.0	100.0	
Analog 4						<input type="checkbox"/>	100.0	10.0	100.0	
Analog 5						<input type="checkbox"/>	100.0	10.0	100.0	
Analog 6						<input type="checkbox"/>	100.0	10.0	100.0	
Analog 7						<input type="checkbox"/>	100.0	10.0	100.0	
Analog 8						<input type="checkbox"/>	100.0	10.0	100.0	
Digital 1	Door					<input checked="" type="checkbox"/>				
Digital 2	Window					<input type="checkbox"/>				
Digital 3	PBX					<input type="checkbox"/>				
Digital 4	CSU/DSU					<input type="checkbox"/>				
Digital 5	Radios					<input type="checkbox"/>				
Digital 6	Xfer SW					<input type="checkbox"/>				
Digital 7	AC Unit					<input type="checkbox"/>				
Digital 8	Heater					<input type="checkbox"/>				
Digital 9	Inverter					<input type="checkbox"/>				
Digital 10	Lights					<input type="checkbox"/>				
Digital 11						<input type="checkbox"/>				
Digital 12						<input type="checkbox"/>				

Additional controls in the interface include: 'Tick for Normally Closed Input', 'Site Monitor Enable' checkbox, 'Manual On' section with checkboxes for Out1, Out2, Out3, and Out4, and buttons for 'Write to SM', 'Save to Disk', 'Read from SM', 'Print', 'OK', and 'Cancel'. The status bar at the bottom indicates 'Written: 11/13/2007'.

**ELECTRICAL SPECIFICATIONS**

Analog Inputs:	Qty. 8, Input Range: 0 to +4 Vdc Full Scale, Over-voltage and reverse polarity protected Scaling factor and low/high alarm levels are user programmable*
Digital Inputs:	Qty. 12, Voltage free (dry) contact closure Active state: User defined* (active open or closed)
Analog & Digital Inputs:	Electrical Isolation: Non-isolated. Each input source must be electrically isolated
Digital Outputs:	Qty. 4, Voltage free (dry) 1 Form C relay contacts, Output rating: 1A @ 30Vdc
General:	Power source: self-powered from the SAGEON® System Interface Plant connection: 16 conductor round ribbon cable to the SAGEON® System Interface Maximum distance from SCU: 30 feet (9.14 meters)

**PHYSICAL SPECIFICATIONS**

Module Dimensions:	D 5.11" x W 9.37" x H 3.14" (130mm x 238mm x 80mm)
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