

TN860 CI-SITE/MC-0 Site Monitor and Controller

The CI-SITE/MC-0 Site Monitor and Controller is a low current, high reliability site monitor capable of operating at extreme temperatures in remote locations. The Site Monitor and Controller has eight analog inputs for monitoring various voltage levels, eight digital inputs for monitoring logic levels, and eight “open drain” outputs for activating relays or alarms. The Site Monitor and Controller can be set up in a limited configuration as a stand-alone unit at a repeater site and can be used to send alarms tones over the air. The Site Monitor and Controller can also be configured as a Gateway-Slave configuration where the Gateway is located at a base station and is connected to a computer running the Site VIEW application software (CI-SITE/MC-9). The Gateway communicates with the Slave units located at the remote repeater sites using FFSK format over the RF links (the Site Monitor and Controller has an FFSK modem built in). This also allows the Slave units to be remotely reprogrammed, controlled, and monitored from the Gateway location.

The Site Monitor and Controller can also be used in a Hot / Cold Standby System. The Site Monitor and Controller can monitor alarm and voltage inputs on the Primary system and switch over radio communications to the Secondary system automatically on any alarm or low voltage condition.

The Site Monitor and Controller provides the following features:

19” rack mountable chassis

- chassis is capable of holding two Site Monitor and Controllers in 1 RU

Built-in FFSK Modem

- capable of 1200/2400 baud over a Daniels radio link with pre/de-emphasis or flat audio

Low current consumption

- average current draw of 65 mA when active,
- average current draw of 15 mA when in standby

Eight analog inputs

- individual analog inputs can be configured as contact closures, switches, open collector or variable voltage inputs
- individual channel hold timers

Eight digital inputs

- individual digital inputs can be configured with 0 - 2.56 V, 0 - 5.0 V, 0 - 25 V and 4 - 20 mA user defined ranges up to 100 V.
- individual channel low and channel high set point triggers with individual hold timers
- 10 bit A/D

Eight outputs

- “open drain” FET outputs, voltage switching up to 50 Vdc @ 150 mA current sink
- programmable pulse or latching outputs

Optional temperature sensors

- span of -55 °C to +125 °C (-67 °F to +257 °F)

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Examples of Site Monitor and Controller Capabilities:

Input Monitoring

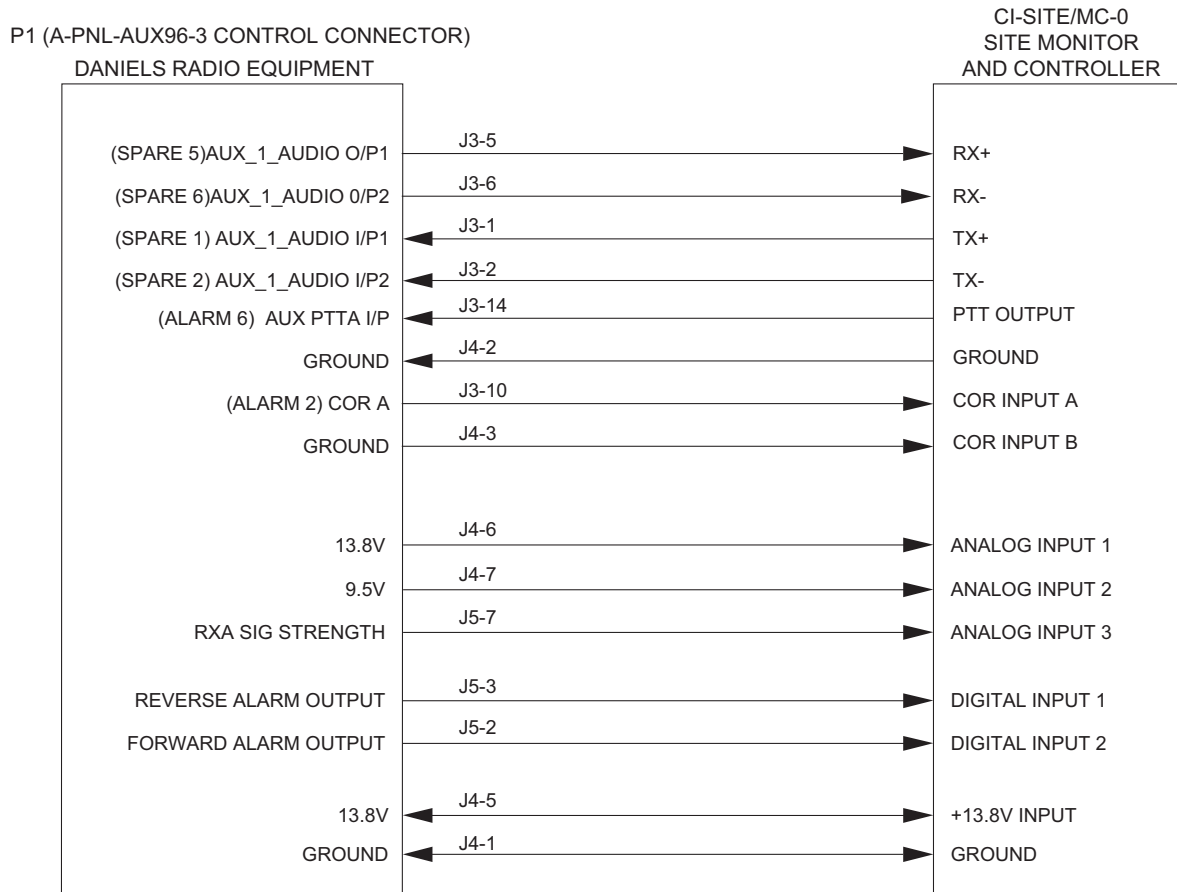
Outside and Inside Temperatures	Transmitter Forward and Reverse Power
High VSWR Alarms	Solar Panel, Battery and Regulated Voltages
AC Power Fail Alarms	Door Alarms

Output Control

Redundant System Enable	Generator Start
Light Activation	Directional Antenna Control

Installation:

Connect the Daniels Electronics subrack with A-PNL-AUX96-3 auxiliary connector to the Site Monitor and Controller as shown in the diagram below. The diagram below shows a Site Monitor and Controller connected to a Daniels Repeater with an AC-3E audio control card.



Jumpers Required:
AC-3E: JU48A, Remove JU51

This product has been discontinued and is no longer manufactured by Daniels Electronics Ltd.