



Remote Call-Out & Alarm System

Application

The SATSCADA Remote Call-Out & Alarm System is used in applications where equipment status detection and alarm notification is desired in urban or remote areas. Integral GPS also provides asset tracking capabilities.

Typical applications include:

- Engine running status
- Pump running status
- Fluid level notification
- Valve position
- Remote security systems
- Gate position
- Asset tracking
- Environmental monitoring
- Transfer switch position
- Remote substation
- Cathodic protection
- Bridge icing condition

Standard Equipment

- SATSCADA terminal in Nema 4 weatherproof enclosure.
- Lithium battery with 3 year life (included inside).
- Built-in disarm timer (optional)
- 20 foot industrial sensor cable included.

Inputs

- Up to 4 digital inputs.
- 1 analog input.

Features

- E-mail Alert on contact status change or analog set point violation to computer, pager or cell phone.
- E-mail scheduled daily reports showing contact status and analog value to computer, pager or cell phone.
- E-mail Alert sent to multiple locations simultaneously.
- View history of data with Outlook or Outlook Express.



Installation

- Mount SATSCADA terminal on top of a panel or horizontal surface. Pole mounting hardware is also available.
- Connect up to 4 dry contacts and one analog input (4—20 ma) (See diagram on reverse)
- Provide Monico with location information and the e-mail addresses you wish the alarms sent to.

Message Format

The e-mail message subject line identifies the location, unit number, 4 digital status, analog value and if the message was the result of a digital event (E), time scheduled (S) or polled (P). Terminal serial number, date & time the message occurred, battery voltage and temperature may be found in the e-mail body.

From: Monico SatAlert
Sent: Wednesday, November 15, 2003 11:27 AM
To: 5126570425@mobile.att.net, doyle@monicoinc.com, david@jump.net (Up to 10 alert messages)
Subject: Strong CTB, 600116, 1010,7.6, E (Location, unit number, digital status for inputs 1, 2, 3 & 4, analog value, message type)

00004080VTIFDED (SatAlert terminal serial number)
 11/15/2003 11:26:06 AM (Time and date message was sent from the SatAlert terminal)
 Bat=10.35 (SatAlert terminal battery voltage, only shown on scheduled or polled messages)
 Temp=36.2 (SatAlert terminal ambient temperature in degrees F, only shown on scheduled or polled messages)

*** NOTE: Descriptions shown in blue are not part of the message.***
 See typical wiring connection and technical details on reverse side >>>

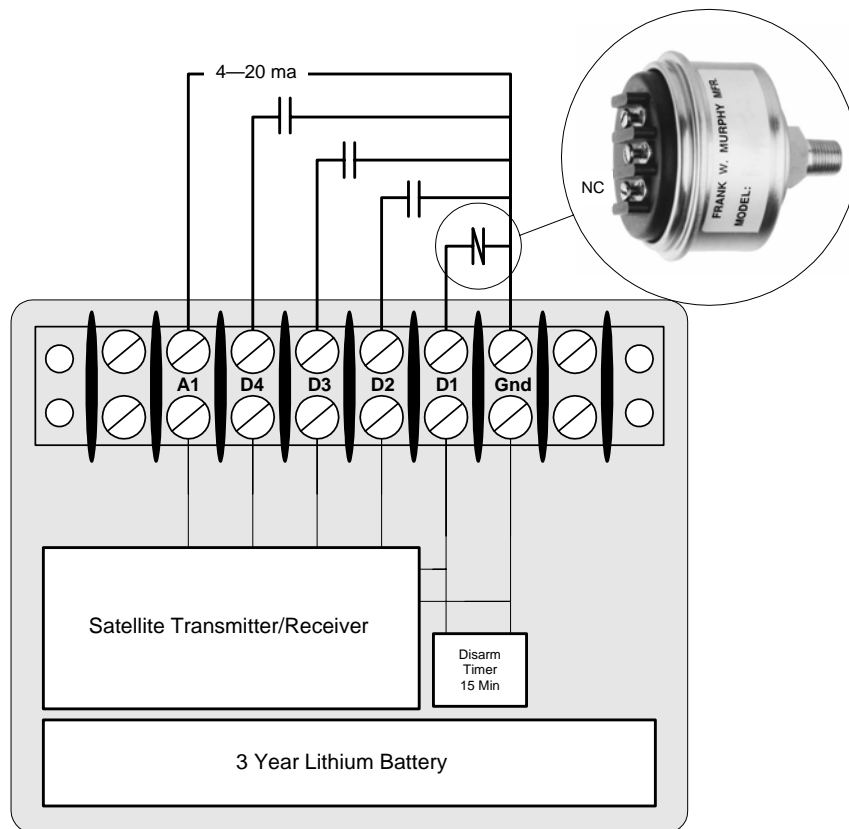


Connection & Technical Details

Connection Details

The SATSCADA terminal may be connected to 4 dry contacts such as oil pressure or level switches and one analog input such as a flow meter, pressure transmitter or tank level. Connect D1 to one side of the oil pressure switch and Gnd to the other side. Any additional switches may be connected to D2, D3 and D4. All digital inputs share the common Gnd. Connect the analog input to a self powered 4—20 ma sensor using a 150 ohm resistor between the input and ground.

- ⇒ DO NOT CONNECT TO ANY SWITCHES THAT HAVE OTHER WIRES OR VOLTAGES CONNECTED TO THEM.
- ⇒ DO NOT EXCEED 3 Vdc ON THE ANALOG INPUT.
- ⇒ BE SURE TO COAT ALL OUT-DOOR DRY CONTACT FIELD CONNECTIONS WITH LIQUID TAPE OR SILICONE TO PREVENT FALSE ALARMS OR WRONG VALUES.



Technical Details

- Small: 10" x 8" x 4" NEMA 4 weatherproof fiberglass enclosure.
- Built-in omni directional antenna.
- Operating temperature -40°F (-40°C) to 185°F (85°C).
- Environmentally tested for temperature, humidity, pressurized wash, fungus, vibration, shock.
- 3 year Lithium sealed battery.