

Overview

The SMS4D is the data transport device for the CompressorLynx and AlarmLynx products. It utilizes a single LED to provide a visual indication that is useful during set up as well as allowing a window into the operation of the device. It is located adjacent to the Phoenix wiring connector and serves the following functions. First, it shows that power is supplied to the device. In addition, it is an indicator of service availability, relative signal strength, and the message queue.



Power Indication

The SMS4D operates on input voltages of 9 - 24 VDC. It is a low power device and requires < 250 micro amps of current at 13 VDC in the normal, or sleep mode. Since low power is desired for solar applications, the LED is only turned on solid for a short period of time following the initial connection of supply voltage. It is during this time that the unit checks for available service.

Service Availability

During the power up process, the device monitors the cellular network to verify that a carrier and service are available. This typically takes ten to twelve seconds. Once this has been accomplished, the LED will turn off for two to three seconds and then begin a slow blink sequence of two to five blinks indicating relative signal strength.

If the unit cannot immediately establish service, it will continue trying until its retry counter expires. During this time, the LED will remain on. The default is 300 seconds, (5 minutes). After the retry time expires, the LED will turn off without giving the signal strength sequence. In the event that this occurs, it may be necessary to change to a higher gain antenna to increase signal strength.

Relative Signal Strength Indication

The relative signal strength indication is the blink sequence that occurs just after power up and following the delivery of a message. It consists of two to five blinks and provides an estimate of received signal level similar to the signal bars on a cell phone.

Two blinks; RSSI is below -90db
Three blinks; RSSI is above -90db and below -73db
Four blinks; RSSI is above -73db and below -57db
Five blinks; RSSI is above -57db

The greater the number of blinks, the better the signal.

Message Queue

When a status change occurs on one of the four inputs, a de-bounce timer starts. The factory default is set for ten seconds. After the timer expires, the LED will blink rapidly as the message is placed in queue and transmitted. The blink sequence will typically continue for twelve to fifteen seconds. After the message is shipped, the LED will go off for a moment, slowly blink the relative signal strength, and then turn off.

Support

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