SIMREX Corporation

SIMSYNC-Traffic

FEATURES

- GPS based Time/Date Synchronization/Coordination of Traffic Controllers
- Provides synchronization even if GPS signals are blocked temporarily.
- Contact closure synchronization pulse with variable pulse width.
- Controller specific RS232 message (Eagle™, Econolite™, AB3418).
- Flash upgradeable firmware.
- 9 -24 VDC Input voltage.
- Vandal resistant GPS antenna.

User Configuration

- Time Zone
- Daylight Saving Time (on/off)
- Time of Update
- Single/Multiple updates per day (on/off)
- Message Type (short/long)

Specifications

- **Input Voltage:** 9-24 VDC
- **Current Draw:**
  150 mA(max) @ 12 VDC (<80mA Typ)
  125 mA(max) @ 24 VDC (<50mA Typ)
- **Contact Closure:**
  750 mA @ 30 VDC
- **Temperature Rating:** -34 to +75C

SIMREX..Global traffic solutions. Precise Traffic Timing

For almost 2 decades, SIMREX Corporation's wireless, GPS products have been providing wireless networking solutions with applications in SCADA, telemetry, telecommunications, mobile data and online transaction markets. SIMREX Corporation now provides standalone, licensed and unlicensed solutions for traffic control installation worldwide.

Application Overview

Today's traffic control systems require the precise synchronization of traffic controllers to a common timebase. This is most often accomplished using wireline or radio interconnect of the traffic controllers and a host or Master controller architecture at significant expense. SIMSYNC provides a more cost effective way to achieve synchronization with no interconnection between traffic controllers or connection to a MASTER/HOST.

Product Overview

SIMSYNC connects to a LOCAL controller and either spoofs the time control message of the LOCAL or provides a simple contact closure once per day. The tamper/vandal resistant GPS antenna can mount on top of the controller cabinet. The GPS antenna cable connects to the SIMSYNC controller inside the controller cabinet and is not exposed to the elements or tampering/vandalism.

The SIMSYNC controller processes GPS Time data from the GPS antenna and corrects for Time Zone, Daylight Saving Time, Leap Years, and GPS Leap Seconds. The processed Time information is sent to the traffic controller in the native command format for the respective controller. A contact closure is also available for a once per day update.

In situations where the GPS antenna is blocked for up to one hour prior to scheduled time of synchronization, the SIMSYNC controller will provide synchronization with less than 0.4 sec variance from the accuracy provided under normal operation with multiple GPS satellites in view.

SIMSYNC is powered from any 9 -24VDC supply in the controller cabinet. A 115VAC adaptor is also available.

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