

Many equipment items at a signal facility operate using separate real-time clocks. Over the course of several weeks these clocks may vary substantially. The problem of un-synchronized clocks is particularly troublesome in accident investigations. Worse yet, it's not an uncommon practice to send a technician to each site, just to correct the clocks.

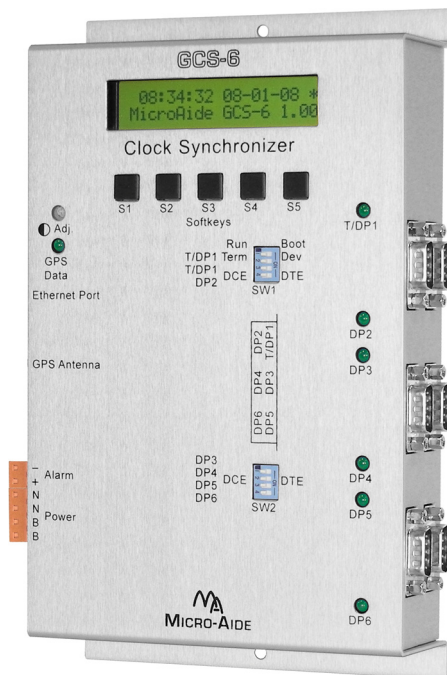


MICRO-AIDE

www.micro-aide.com

GCS-6 Clock Synchronizer

Use a GCS-6 from MICRO-AIDE and solve your clock sync problems



- ▶ The GCS-6 is equipped with a GPS receiver that provides a 100% accurate, no-drift real-time clock.
- ▶ The six serial ports of the GCS-6 are used to send and confirm time set commands that are compatible with various signal-related products.
- ▶ The GCS-6 can broadcast time sync messages using SNTP over a TCP/IP-based LAN. In this mode, the GCS-6 operates as a Time Server while simultaneously providing time set commands via the serial ports.
- ▶ If a Time Server is already available as part of an existing LAN, the GCS-6 can operate as an SNTP receiver, converting time sync messages into time set commands.

Remote Access Data Transparent Mode

Allows users to access any device that is connected to a serial port of the GCS-6.

MODE 1

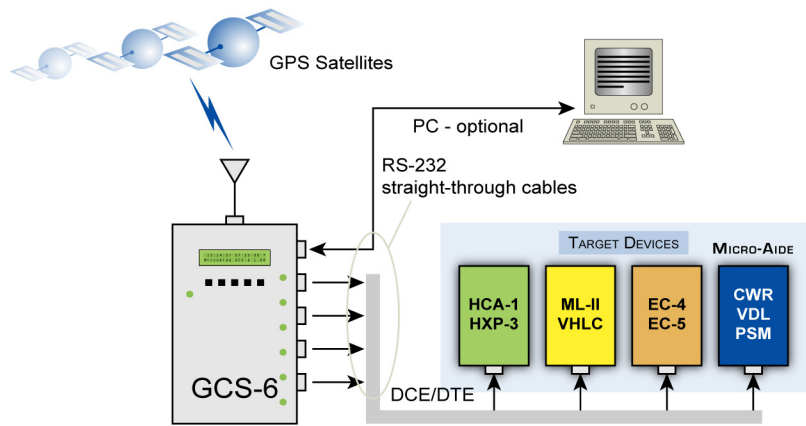
Time Source: GPS

Time/Date Control: RS-232 connections using ASCII commands

User Interface: optional local PC connection or front panel

SNTP: not available

Device Port Access: available using local PC



MODE 2 - REQUIRES ETHERNET PORT

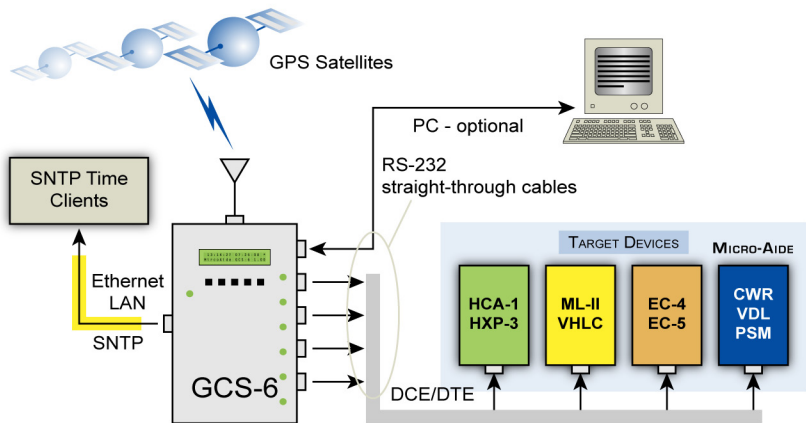
Time Source: GPS

Time/Date Control: RS-232 connections using ASCII commands and SNTP multicast

User Interface: optional local or remote PC connection or front panel

SNTP: operates as Time Server

Device Port Access: available using local or remote PC



MODE 3 - REQUIRES ETHERNET PORT

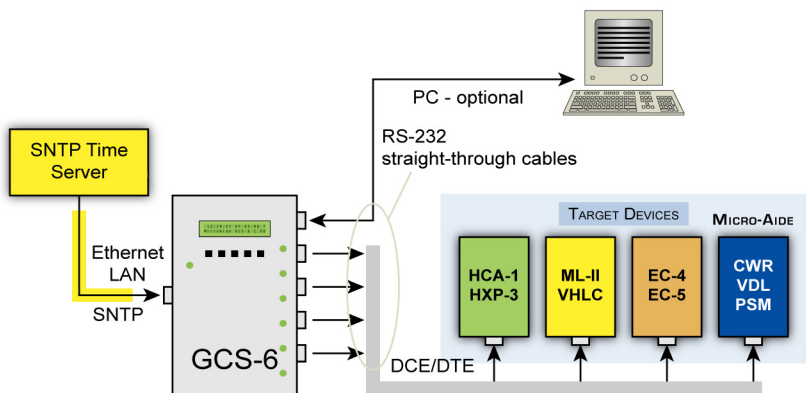
Time Source: SNTP Time Server

Time/Date Control: RS-232 connections using ASCII commands

User Interface: optional local or remote PC connection or front panel

SNTP: operates as Time Client

Device Port Access: available using local or remote PC



MODE 4 - REQUIRES ETHERNET PORT

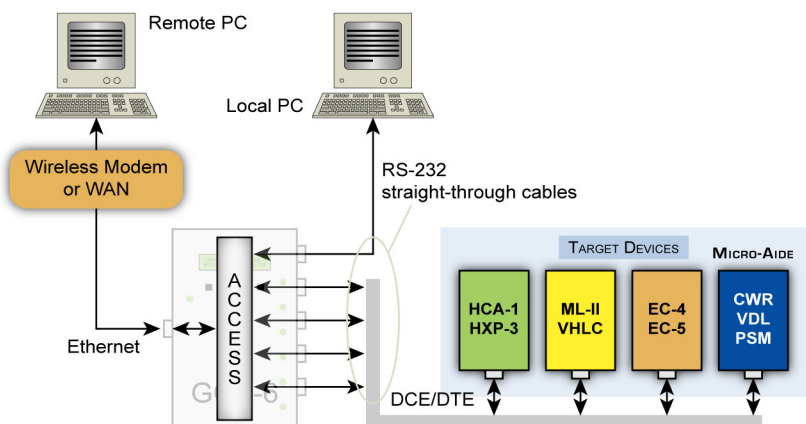
Time Source: GPS or SNTP Time Server (not shown)

Time/Date Control: RS-232 connections using ASCII commands, except when accessing selected Target Device

User Interface: optional local or remote PC connection or front panel

SNTP: operates as Time Server or Client

Device Port Access: available using local or remote PC



GCS-6



CLOCK SYNCHRONIZER MICRO-AIDE

