

Standalone GPS Clock

Key Features

- GPS Based Digital clocks automatically synchronize (self correct) with GPS Satellite.
- High quality, professional appearance.
- 2 / 4 inch digit sizes.
- High visibility with adjusted brightness.
- Multiple time and date.

The GPS Synchronized Network Time Displays are maintenance free clocks that keep accurate time by synchronizing their time over the jelly filled armored cable network to a GPS Clock. These clocks use two wired standard RS485 serial protocol to keep the time correct. Select between digital displays including 12 or 24 hour formats. Automatic time synchronization are supported so the clock should never need manual adjustment.

Avronica offers a wired clock system for organizations with time-sensitive operations. The system is compatible with standard network interface as a master clock for traceability to UTC (Coordinated Universal Time). Time from the GPS Clock is broadcast by a two wire, synchronizing the displays to all other network clock systems throughout the facility.

Attractive, professional and very visible synchronized time is easily distributed throughout a facility using wired networks. Digital and analog clock types accommodate the different visibility and décor requirements within the facility.



Display installation and configuration is an easy, cost effective task made even easier by using wired network interface instead of requiring dedicated cabling to distribute time signals. Slave Clock keeps ticking with its internal RTC during no fix RTC has battery backup to keep time running during power off.

Display:

A Six (or four) digits, super bright 2 / 4 inches height seven segment Red color with single sided display which indicates hours (2 Digits), minutes (2 Digits), Second (2 Digits) and Red LED forming colon (:) as field separators between Hours, Minutes and Second. There is a dot as Sync or link loss indication.



Wall Mounted with screw holder provided on the back side of the clock

Make: AVRONICA**Model: GND-4**

Specifications



Model	GND-4
Display Height	Six 2" RED Digits (HH:MM:SS)
View Angle more then 60°	Yes
Sync Indicator	Yes
Display Brightness control	Yes
IST/GMT Mode and 12/24 Switch electable	Yes
Web Configuration for IP, time format brightness settings, Status indication for GPS lock, sync status, and power	Yes
Connectors	
RJ-45 Ethernet (10/100)	Yes
RS422/RS485	Yes
GPS Antenna SMA (IP20)	Yes
Electrical	
Power: DC Model	12V, 1Amp
Power: AC Model (Optional)	220V, 50Hz
RTC Rechargeable Battery	3.6v 60mah Ni-Cd
Mechanical	
Size (Approx) In inch	Width x Height x Depth 16 x 4 x 3
Temperature	0 - 60 Degree C
Weight	Less than 4 kg
90% humidity @ 45deg C	Yes
Mounting	Wall
Material/Housing	Black/Gray colored Powder Coated MS Sheet / CRCA sheet
Product Includes	
AC powered models	Display, power cord, GPS Antenna upto 30 meter cable and manual
DC powered models	Display, power cord, GPS Antenna upto 30 meter cable and manual

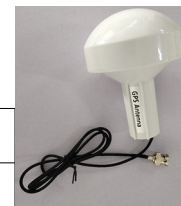
<https://www.avronica.com/index.htm>



GPS ANTENNA

Key Features:-

Antenna	All Weather proof
Antenna Type	Active L1 GPS Antenna
Frequency Range	1575.42MHz +/-5.5
Bandwidth	+/-5MHz
Gain	30dB
Amplification Gain	>=28-dB
Temperature Range	-40 to +85 Degree Celsius
Surge Arrestor	Compatible Coaxial Surge Protector(Lightening Surge protection)
Coverage	360 Degree
VSWR	<=1.5
Polarization	Linear
Max power	50W
Nominal Impedance	50 Owm
Interface Connector	BNC
Cable	RG174/RG6/RG11
Cable Length	Customization as per site requirement up to 30 meter
Ingress Protection	IP 67
Mounting	Pole Mount



GPS RECEIVER

Timing Accuracy	< 141.6 nano sec with GPS Receiver
Positioning Accuracy	<10 Micron
Tracking	12 Channels
Acquisition time	Hot Start < 5sec, Warm start < 38sec Cold start < 45sec

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** Certification (ISO 9001:2015, ISO 14001:2015)