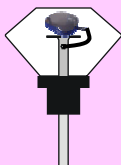


# GPS BASED MASTER & SLAVE CLOCK SYSTEM

The Digital Master and Slave Clock System is designed to provide time information using Global Positioning Satellite System (GPS) or Stand alone High Stability Oscillator. The system provides synchronized time data for all the activities in Power Plants, Process Industries, Airports, Railway Stations, All India Radio & Doordarshan etc, where several computers or systems are Installed. The common reference time is obtained from the GPS orbiting round the earth or from a High Stability Oscillator. In case of non-availability of satellite signal, the master runs in free running mode by using its own RTC and oven controlled crystal oscillator.

Some of the target systems are synchronized through contacts inputs; therefore system provides relay contact outputs.



## SPECIFICATION

### MASTER CLOCK GPS

- GPS time synchronization to PC, LAN network (optional), Slave Clocks, etc...
- RS 232C, RS485, TCP/IP (optional) Interface.
- Multiple Slave Clock drive up to 1.2 Km.
- Time Date Display (LCD).
- Built in Real Time Clock.
- Potential free Contact Output Pulse (1PPS, 1PPM, 1PPH, 1PPD).
- Membrane keypad for configuration of contact O/P selection, Periodicity, Pulse width - Local / Time Set.
- LED Indication of Status (GPS Healthy Modes of operations etc.)
- Back up time using high accuracy (0.1, 1PPM) oscillators.
- Alarm facility.
- Operating Voltage – 230 VAC, 50 Hz.
- Dimension: 483mm X 355mm X 560mm.

### DIGITAL SLAVE CLOCK

- Time Synchronization with Master or GPS (in standalone mode).
- Time Display in HH:MM:SS, (HH:MM).
- Display Seven Segment Red (4" & 2" Digit, any other please specify).
- Signal Driving Distance 1.2 Km through twisted pair Communication cable used for RS485 link.
- Multiple Slave Clock connectivity, extended slave clock drive.
- Stand-alone / Network mode.
- Remote setting for time / Manual Time set through Remote Control (Optional).
- Ceiling / Wall mounting.
- Operating Voltage – 230 VAC, 50 Hz.



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