DIGITAL SLAVE CLOCK

OVERVIEW

Time is an important factor in all organizations. Uniform time displayed at all places in a working environment produces effective results.

Responding at the right instance of time to a critical operation saves machinery losses, finance and many other valuable assets.

SERTEL manufactures GPS based time display units that altogether are in synchronous with the UTC and always shows the right time at all places and at all instances.

These units are regulated through the time data signal sent by a centralized Master Clock unit. The productivity of any organization is elevated by following a synchronized time as every department adheres to same time schedule.

All the time bound activities are highly benefited from the slave clock units. Timekeeping has become an essential feature to improve the quality of performance

OPERATION

T-SL-300-100-6D is regulated by the master clock unit through the differential pulses. Slave units are connected in multi-drop mode making the rest of the units to function when one of them fails.

The pulses carry the time data comprising hour pulse, minute pulse and second pulse. Time is incremented for each second through 1PPS which is the fundamental time base for each instance of time being incremented.

Plenty of slave display units can be deployed with one common master clock unit. This is feasible through distribution units accompanied with boosters depending on the distance of deployment from the master unit.

Slave clocks are always in synchronous with the master clock thus shows the exact time as that running in the latter

The time data is decoded from the input signal at each instance of time and shown as 7-segment numbers, two digits for hour, minute and second slots in 12 or 24-hour format.

KEY FEATURES

- Multi-drop mode for connecting all the display units.
- 300 units can be connected with one Master across the plant area over radius of 10 kms.
- Differential pulse input (customizable).
- Display in HH:MM:SS format / HH:MM format*
- LED wall display with clear and good readability.
- Weather-proof construction
- RED colour digits capable of viewing from long distance with optimum visibility
- Loss of any slave display unit does not affect the display of any other unit
- Available Character Size 100MM, 150MM, 200MM, 300MM
- NON-GLARE type Display
- Manual mode for time setup as per requirement.
- Communicate over Differential Pulse signal with zero ground over three wire communication to prevent from transient voltages spikes or high voltage effects, lightning strikes etc
- SMPS power supply for smooth and reliable performance.
- Wide viewing angle facilitated by RED transparent filter overlay.
- Option for Displaying Time and Date in a single display*

SLAVE CLOCK
T-SL-300-100-6D

TECHNICAL SPECIFICATIONS

PHYSICAL ASPECTS

Model	:	T-SL-300-100-6D
Character Size	:	100 mm (Customizable)
Display Type	:	7-segment LED
Display Colour	:	RED
Pattern	:	HH : MM : SS
Time Format	:	12 or 24-hours
Signal Update	:	Every second
Dimension	:	700 (W) x 135 (H) x 35 (D) mm*
Material	:	Diecast Aluminium
Colour	:	Black
Mounting	:	Wall/Panel/Table top

*Display Inputs are customisable based on the requirements
 Dimensions will vary for other character display

INPUT CONFIGURATIONS

Signal source	:	IRIG-B (TTL/AM) or Sertel Proprietary Diff Pulse for more than 25 Slaves
Cable Type	:	Co-Axial / Five Core
Voltage	:	Universal 90-260 V AC/DC

Provision for manual setting as per requirement

ENVIRONMENT

Ambient Temperature	:	-10 °C to 85 °C
Humidity	:	0-90% RH, non-condensing
Protection Class	:	IP55 standard IP66 for Outdoor application*

*Feature Available only on Specific requests and suitable price points
*Output ports are customizable based on the requirements
*Product development is continuous process, subject to change without prior notice