



OVERVIEW

Time is an important factor in all organizations. Frequency generated to be displayed in control room/grids/substations which produce 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 which has frequency display and it communicates over Ethernet to interface with SCADA.

These units are regulated over Ethernet by a SCADA Server. The productivity of any units/grids is elevated by the generated frequency ranges.

Sertel Frequency display even can read data from SCADA and the same can be displayed.

All the time bound activities are highly benefited by the display units. Frequency keeping/monitoring has become an essential feature to improve the quality of performance.

Sertel GPS Receiver will take Raw Power Input and calculate accurate frequency with respect to time, Frequency data will be transmitted to display over RS485 communication.

OPERATION

T-FDU-300-100-5D is regulated by the input source. Frequency units are connected over Ethernet / RS485 to SCADA system and displays the frequency.

Frequency is incremented for each second from your SCADA server which is the fundamental time base for each instance of time being incremented.

Plenty of frequency display units can be deployed and connected over Ethernet.

Frequency displays can able to read data inputs from SCADA over Ethernet Interface

Frequency Display have provision for providing data input to frequency deviation and time deviation displays.

KEY FEATURES

- Frequency display for monitoring frequency.
- Input Ethernet from SCADA.
- Raw Power Frequency
- Sends the data to SCADA on the generated frequency with respect to Raw Power
- Display Format: XX.XXX Hz (or) XX.XX Hz
- GPS Receiver reads frequency data from raw power and will be displayed over RS485 communication
- Raw Power input range of 220 260v AC with frequency ranges from 48 to 52Hz, option of 60Hz available for outside India.
- Character height will be 100MM
 - Seven Segment RED LED Display with clear and good readability.
- Weather-proof construction*
- RED colour digits capable of viewing from long distance.
- SMPS power supply for smooth and reliable performance.
- Provides deviation data to Time Deviation and Frequency Deviation Displays.



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FREQUENCY DISPLAY UNIT T-FDU-300-100-5D

TECHNICAL SPECIFICATIONS

PHYSICAL ASPECTS		INPUT CONFIGURATIONS	
Model	: T-FDU-300-100-5D	Signal source	: Raw Power (or) RS485
			(or) Ethernet
Character Size	: 100 mm (customizable)	Cable Type	: Data Cable
Display Type	: 7-segment LED	Connection Mode	: Raw Power
Display Colour	: RED	Voltage	: 230 V AC 50Hz
Pattern	: XX.XXX (or) XX.XX	OUTPUT INTERFACE*	
Signal Update	: Every second	Signal Output	: Frequency Deviation Display
			Time Deviation Display
Dimension	: 700 (W) x 135 (H) x 35 (D)mm	ENVIRONMENT	
Material	: Diecast Aluminium	Ambient Temperature	: -40 °C to 65 °C
Colour	: Black	Humidity	: 0-90% RH, non-
			condensing
Mounting	: Wall/Panel/Table top		





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





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