



High Precision Time Calibrator

(HH:MM:SS:SS/1000)

TTCG - 01B Instrument Manual



Table of Contents

| | |
|--------------------------------|---|
| 1.Preface..... | 1 |
| 2.Technical Specification..... | 2 |
| 3.Operating Principle..... | 3 |



Preface

Congratulation on purchase of “Tunix” make High Precision Time Calibrator Model : TTCG - 01B. This instruments is one of the best available in its class. We have taken enough care in designing and manufacturing to give you trouble free performance for longer period. Before starting the instrument, we suggest you to go through the instruction manual.

On Arrivel

Please check for following Standard accessories

- 1) Product is not physically damaged.
- 2) Power supply adaptor
- 3) GPS antenna(if ordered)
- 4) Carry bag
- 5) GPS extension Cable (If ordered)

Technical Specification

- Range: (HH: MM: SS: SS/1000)
Elapsed time/Up count mode :99 Hrs
Real time Mode: 24 Hrs
Time Resolution: 1 millisecond
- Time stability: Better than ± 20 PPM at 25° C
- Automatic GPS Synchronization
- Manual Reset /start buttons with feature of Electric Changeover contact
- Weight: 905 grams with Antenna
- Dimensions: 230 mm Length, 145 mm (Height without antenna), Depth 105 mm
- Enclosure: Polycarbonate IP 67
- Power Supply: 5 V Through DC adapter
- Accessories: Instruction manual, Extended Cable 10 Meters with connector (Optional), Carry bag (Optional)

Operating Principle

Time calibrator works on the principle of synchronising frequency generated by highly stabilized crystal oscillator circuit, frequencies are calibrated into time parameter; to get the standard output in terms of time(HH:MM:SS:SS/1000).

To the resolution of 1 ms.

Real time is synched with time/period with UTC & real time GPS signal to get the measurement traceability for real time.



Features

Time Calibrator TTCG-01B has Four Switches

- **Start :** to start period calibration
- **Stop :** to stop period calibration
- **Reset :** to reset the values in period calibration
- **Mode :** To switch the Mode from Reatime to Period Calibration Mode or vise versa

Procedure :

Period Calibration(Automatic start-stop feature)

- Plug-in the power supply.
- Press the mode button to switch the mode from real time to period calibration mode.
- use start and stop button to Start and stop the Timer(Manual Operation).

Operating Principle

Electrical Switching : stop and start the timer without using switches.

