



TSC 4400

GPS Disciplined Rb Oscillator

KEY FEATURES

- Provides a Coherent Timing Signal Set
 - 1PPS: 4 Outputs
 - 10 MHz: 4 Outputs
 - IRIG-B: 4 Outputs
- · Network Time Protocol (NTP) Server
- Capable of Steering an External Frequency Reference
- Front Panel LEDs Indicate System Status
- · Status Information via Ethernet
- · Operates with L1/L2 GPS Frequencies
- · Includes GPS Antenna

The TSC 4400 is a time recovery system capable of generating precise timing signals traceable to UTC(USNO). It utilizes a GPS disciplined rubidium frequency reference to provide timing outputs characterized by the short-term stability of the atomic reference and the long-term stability of GPS.

The versatility of the TSC 4400 makes it suitable for a variety of applications. It is capable of steering external frequency references (e.g.: cesium) via RS232 to further improve timing performance. Its size allows for two units to be mounted side by side in a standard 19" rack providing full redundancy for those applications requiring uninterrupted timing signals.

The Ethernet connection also simplifies integration with complex systems by allowing health and status information to be monitored remotely.

The TSC 4400 can be configured to custom requirements.

Please contact Symmetricom with any specific requirements.



TSC 4400 GPS Disciplined Rb Oscillator

TSC 4400 SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

• 10 MHz Output

 $\begin{array}{ll} \mbox{Connector:} & \mbox{SMA female} \\ \mbox{Level:} & \mbox{$1\pm0.1\,\mbox{V RMS}$} \\ \mbox{Impedance:} & \mbox{$50\pm5\Omega$} \\ \end{array}$

SSB Phase noise (Rb)

• 1PPS Output

• IRIG-B Output

 $\begin{tabular}{lll} Connector: & SMA female \\ Time code: & IRIG-B 123 \\ Impedance: & 50 \pm 5 \Omega \\ Accuracy: & <5 \ \mu s \\ \end{tabular}$

ENVIRONMENTAL & PHYSICAL SPECIFICATIONS

• Temperature: 0°C to 50°C

Humidity: 0 to 95% non-condensing
AC Input: 90 - 264 V AC, 85 W, 47 - 63 Hz

• Dimensions: 3.5" (8.89 cm) H x 9.5" (24.13 cm)W x 22" (55.88 cm) D

300 ns @ 24 hours

Weight: 12 lb (5.5 kg)Color: Parchment White

CONFIGURATION OPTIONS

• Dual frequency receiver

4400 Standard product

4400-01 With rack Mount chassis

4400-02 Fully redundant, includes rack mount

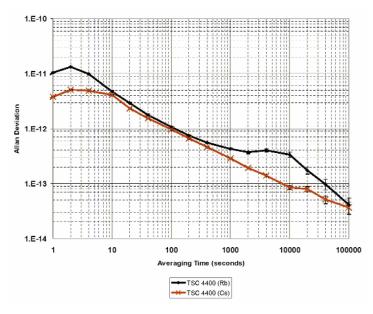
• Single frequency receiver

4400-03 Single frequency L1 receiver 4400-04 With rack mount chassis

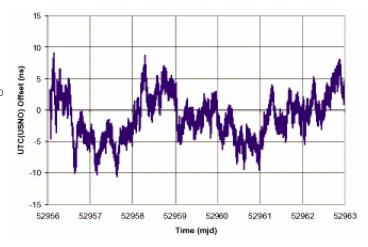
4400-05 Fully redundant, includes rack mount

ACCESSORIES

- OP001 30 m GPS antenna cable
- OP002 60 m GPS antenna cable
- OP003 Lightning arrestor



Typical Performance (10 MHz)



Typical Performance (1PPS)



Rear View



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