



GPS100

GPS Receiver


The GPS receiver GPS100 is a GPS receiver specially designed for the use with the TSG800 time signal generator. The GPS100 delivers exact time information synchronized via Satellite to the connected application.

1. GPS Synchronization with TSG800



To start the GPS SYNC., push “GPS SYNC” button and connect the C-MAX “GPS100” unit by using the RJ45 GPS/SYNC. connector at the left side of the front panel.



The GPS mode will allow different operating options. Available are the options “Sync sec” and “Sync Time”. If “Sync sec” is set to ON, the change over of the second is adjusted exactly to the change over of the second of UTC time. If this feature has successfully finished,  will be displayed in the upper right corner of the display. If, in addition, “Sync Time” is set to ON, the time that is supplied by the GPS receiver will be calculated into local time (exception: WWVB) and be transmitted as time and date. The calculation will also take possible summer time settings into consideration. If the GPS receiver is connected, the recently transmitted values of the second will be displayed. If the GPS receiver is not connected XX will be displayed in the same position.

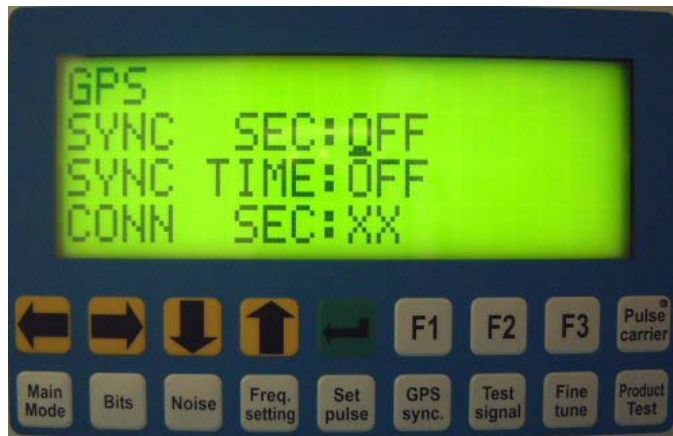
If “Sync Time” is chosen, “Sync sec” will be turned on automatically.

If “Sync sec” is activated, an automatic fine tuning of frequency and time pulse will be done in addition to adjustment of the second impulse to UTC.

A precision of ±0.1ppm will be accomplished after max. 30 minutes. If a highly deviating value has been adjusted previously, the display “locked” might appear and disappear in uneven periods.

NOTE:

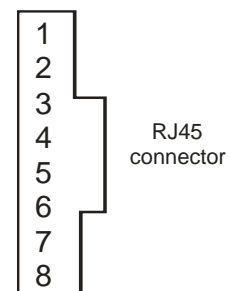
Before disconnecting the RJ45 connector, the GPS SYNC must be switched OFF or the whole unit must be turned OFF.



2. Technical Information / RJ45 pinning

Supply voltage	15V
Outside dimensions	65x122x42 mm

Symbol	Function	Pin #
Rx +	Reception (+)	1
Rx (-)	Reception (-)	2
Tx (+)	Transmission (+)	3
PPS (-)	Negative signal per second	4
PPS (+)	Positive signal per second	5
Tx (-)	Transmission (-)	6
Vcc	Supply voltage	7
GND	Ground	8



3. Ordering information

Part no.	Description
GPS100	GPS receiver

Disclaimer of Warranty

Information furnished is believed to be accurate and reliable. However C-MAX assumes no responsibility, neither for the consequences of use of such information nor for any infringement of patents or other rights of third parties, which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of C-Max. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. C-MAX products are not authorized for use as critical components in life support devices without express written approval of C-MAX.

Note

It is not given warranty that the declared circuits, devices, facilities, components, assembly groups or treatments included herein are free from legal claims of third parties.

The declared data are serving only to description of product. They are not guaranteed properties as defined by law. The examples are given without obligation and cannot given rise to any liability.

Reprinting this data sheet - or parts of it - is only allowed with a license of the publisher.

C-MAX reserves the right to make changes on this specification without notice at any time.

C-MAX Time Solutions GmbH

Carl-Zeiss-Str. 13
74078 Heilbronn

Tel.: +49-7066-900400

Fax: +49-7066-9004029

e-mail: contact@c-max-time.com

Data sheets can also be retrieved from our Internet homepage: www.c-max-time.com