SEIKO

GNS-1000

MOUNTING AND
INSTRUCTION MANUAL

SEIKO TIME CREATION INC.

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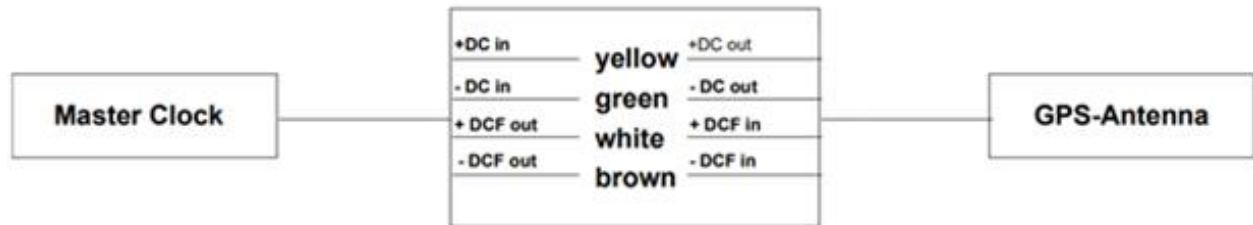The contents of this document change without prior notice

1 Description

The time signal receiver GNS-1000 receives and processes the signals of up to three Global Positioning System. With this precise time sources as a reference, it is designed to synchronize master clocks and time servers. For this purpose, it sends out a serial time signal (DCF coded : UTC) over a current loop interface.
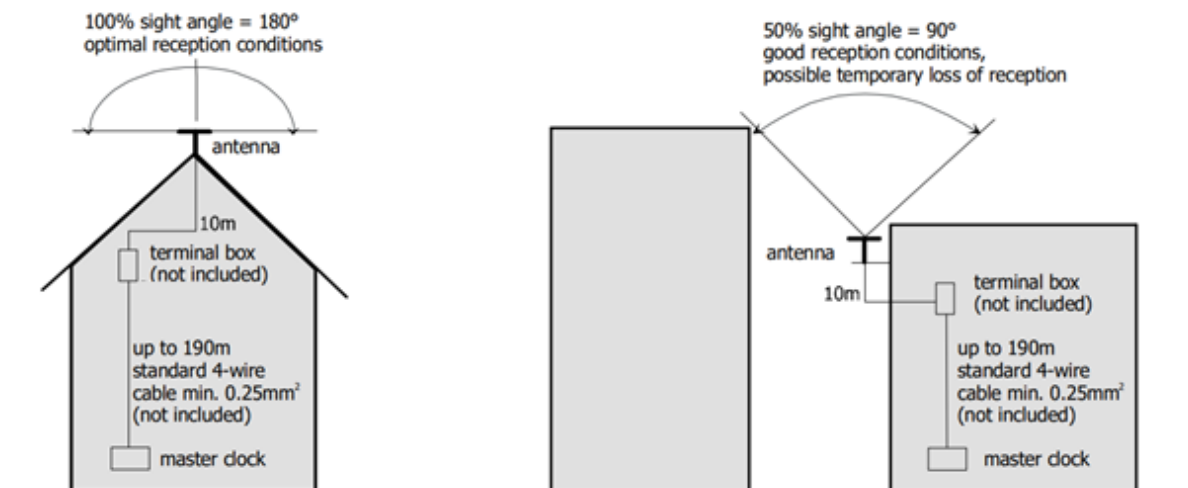
2 Technical data

	GNS-1000
Frequency	L1 C/A
Sensitivity	-166dBm
Satellites	72 channel satellite tracking, min. 3 satellites required
Interface	white : DCF+
	brown : DCF-
	yellow : V+(Supply 24V from QCN-1000)
	green : GND
Synchronization time	< 5 minutes
Status display	LEDs visible from below (cable side)
	LED red: UTC time output
	LED green: CET local time output
	Power supply OK: LED blinks once every five seconds
	Synchronization OK: LED blinks once per second (signal output)
	Synchronization lost: LED blinks once every five seconds
Power consumption	< 0.4W (< 40mA @ 12V)
Mechanical properties	
Housing material	POM (polyester, UV resistant); black upper, milky white lower
Measurements	85 x 80 x 86 mm (L x B x H) (L = distance to wall)
Weight	approx. 200g
Cable	10m, UV protected, 4-wire, 0.25mm^2 (AWG 23), ext. up to 200m possible
	Up to 400m with cross section of at least 0.5mm^2 (AWG 20)
Environmental requirements	
Protection class	IP 65
Temperature range	-30 °C to +70 °C

3 Connections

4 Mounting

For inquiries and repair requests regarding this product, please contact us from the website below.

https://www.seiko-stc.co.jp/en

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