VP-200T Récepteur GPS de temps / antenne

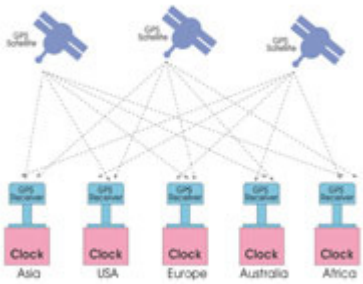
Resumé:

VP-200T est un récepteur GPS et le calendrier de l'antenne dans un boîtier résistant aux intempéries

La précision est comme + / - 100 nanoclient Se comme une horloge atomique

Le VP-200 T peut communiquer avec 3 ème fixe par satellite peut être positionnée soit à la non autre-satellites fixes. Cela permet à l'information en temps précis soit arrivé, peu importe où dans le monde

Fonctions:



Très compact, facile à appliquer et ce qui étanche

Fast départ possible pendant 18 secondes à chaud de la

Raccordement électrique de 8 ~ 40 DC

Faible consommation d'énergie de seulement 0,9 W

TecSys GmbH • Karl-Theodor-Str. 55 • D– 80803 München • Tel (089) 321 990-12 • Fax (089) 307 2165

TECSYS
TECHNICAL SYSTEMS

Datasheet VP-200T Time Transfer

Mechanical Data:

Size in mm (Diameter x H)	11.4x7.4
Weight	360gram w/o cable
Cabel	15m (stand. RS232) 100m (opt. RS422)
Housing	7 pin circular, hermeti-cally sealed
Pins	Gold plated for anti-corrosion
Mounting	Pole mount to 1”14 threaded pipe
Housing color	white
Construction	Hermetically sealed & fully waterproof

Environmental Conditions:

Operating Temp.	-30℃ ~ + 75℃
Storage Temp.	-40℃ ~ + 85℃
Humidity	95% non-condensing

Communication:

Protocol	NMEA 0183, 4800 baud rate
Signal level	RS-232 or RS 422 (op-tional)
1PPS	TTL

OEM Options:

Output interval	0 ~ 60 sec. Selectable
Operating Mode:	2D, or 2D / 3D automatic
Type of Interface	RS 232 or RS 422 (op-tional)
Date	One of the 171 datum supported
Extended Input Voltage	Up to DC 60 V
Sentence Availiable	GGA, ZDA, RMC, GLL, GSA, GSV, VTG
Satellite Mask	SNR, PDOP, elevation angle, satellite number

Interface Capability:

Output protocol	NMEA 0183/ RS-232 or RS-422
Standard Output Sentences	GLL: Position & UTC Time GGA: Position & UTC Time RMC: Position, time, speed, course ZDA: Time & Date
Custom Outputs	Refer to OEM options

Performance:

Antenna	High-reliable ceramic patch
Antenna LNA gain	26+/-2dB, NF:2.0dB max.
Receiving frequency	1575.42 MHZ, C/A
Receiver architecture	12 channel all-in-view algorithm tracks & uses up to 12 satellites
Acquisition Time	20sec typical (warm start)
Position accuracy	15m or 50 feet RMS*
Velocity accuracy	0.1 knots RMS steady-state
Update Rate	1 sec. Continous
Dynamics	Up to 49m/s.s (tracking sustained)
1PPS Timing Output	Generates one puls per second with rising edge synchronized to UTC after having a position fix
1PPS Timing Accuracy	1 sec. Typical / 100ns after calibration

Power:

Input Power	DC 8~ 40 V, with reverse protection
Voltage Regulator	on board, switching mode
Consumption	1.1 Watt, typical
EMI Filter	rejects power line interface

TecSys GmbH • Karl-Theodor-Str. 55 • D– 80803 München • Tel (089) 321 990-12 • Fax (089) 307 2165

I/O Pin Assignment:

Connector	Wire	Function
Pin 1	White	Recive
Pin 2	Green	Transmit
Pin 3	Yellow	Ground
Pin 4	Bare Braid	Earth
Pin 5	Blue	1 PPS
Pin 6	Black	Power -
Pin 7	Red	Power +

1PPS Output (Rising edge traceable to UTC):

Output Pin	Pin # (Blue)
Max. Output current	+/- 5.3 mA
Voltage High	2.4 V min @ -0.8 mA
Voltage Low	0.5 V max @ 5.3 mA
Start to Output	only when position fix is optained
Synchronization	Rising edge is synchronized to UTC
Accuracy	Within +/- micro second typically
Duty Cycle	50%
Adjustment	100ns increment (advande or delay
Adjustment	PPEC, Gpset, Txnnnn CR LF x = - to advance 1 pps pulse / x = + to dealy 1 pps pulse nnnn = 0000 ~ 9999
Example	PFEC, Gpset, T-0006 => 1pps pulse will be advanced by 600 nanoseconds
	PFEC, Gpset, T+0050 => 1pps pulse will bedelayed by 5 microseconds