

GPS Datalogger Trac-Wise I



Features

- 1) Measures and records data with full GPS navigation accuracy
- 2) Operates entirely independently. Data may download later for analysis by computer.
- 3) Compact design in a single metal case. May be placed in any convenient location.
- 4) 12-channel, low power consumption. May be powered by internal battery or connected to external power.
- 5) High accuracy
- 6) User definable data recording interval from 1 second or greater.
- 7) Up to 1 million measurements can be written on the included high-capacity COMPACT FLASH card (16 Mb)



Applications

- Land / Marine Navigation
- Fleet Management and routing
- Business analysis
- Ambulance, rescue, fire, and police functions
- Municipal road and highway planning

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Hamilton Global Management

Specifications

Performance Specifications

Features	Description
General	L1 1575.42MHz, C/A code, 12-channel, Carrier-Aided with HWTrack©
Sensitivity	-165 dBW minimum
Update Rate	1Hz
Accuracy	Position: 25m CEP without S/A Velocity :0.1/sec without S/A Time :±1µs
DGPS Accuracy	Position: 2m CEP Velocity: 0.05 m/sec
Acquisition	Cold start*: <120sec typical Warm start*: <45sec Hot start*: <15sec
Reacquisition	<100msec
Velocity & Altitude:	-1,000m to 18,000m Velocity: 500m/sec Acceleration: ±4g

Environment Specifications

Features	Description
Operating Temperature	-20° to +75° (Commercial Grade) -40° to +85° (Industrial Grade)
Storage Temperature	-55° to +100°
Operating Humidity	5% to 95%

Physical Characteristics

Features	Description
Primary Power	+9 – 32 VDC
Power Consumption	130 ma w/o power saving <100 ma with power saving <430 mw
Protocol example	\$GPRMC,202243.00,A,5656.9999,N,2410.6323,E,0.0,,290302,15,*25
Coordinate System	WGS 84
NMEA Message	RMC
Dimensions	107.3mm x 37.3mm x 65.6mm
Weight	
Memory	16 Mb Compact Flash Card

Specifications are preliminary and subject to change without notice.

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Active Antenna



Active Antenna	
Frequency	1575 MHZ
VSWR	1.5 Max.
Bandwidth	20 MHz Min.
Impedance	50 O
Peak Gain	4 dBic Min. (based on 70 mm × 70 mm ground plane)
Gain Coverage	=- 4 dBic at -90°=T =90° (over75% volume)
Power Handling	1 watt
Polarization	RHCP
Amplifier Gain (without cable)	27dB Typical
Noise Figure	1.2dB
Filtering	-25dB(±100MHz)
Output VSWR	2.0 Max.
DC Voltage	5.0 VDC
DC Current	22 mA Max.
Physical	
Weight	=120 gram
Size	50x50x17mm
Cable	RG 174, 5-meter length
Connector	BNC / SMA / SMB / SMC / MCX (Male)
Mounting	Magnetic base
Housing Color	Black
Environmental	
Working Temp	- 40°C~+ 85°C
Storage Temp	- 40°C~+ 85°C
Vibration : Sine Sweep,1G(O-P)	10-150-10Hz each axis
Humidity	95%~100% RH
Weatherproof	100% waterproof

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