

GPS Sensor

GPS-21

Make Sense!

Seamless precise positioning anywhere, anytime



- · Parallel 24-channel GPS receiver
- · WAAS, EGNOS and MICHIBIKI enabled

FEATURES

Precise and quick positioning

Parallel 24-channel receiver provides precise and quick positioning at any time.

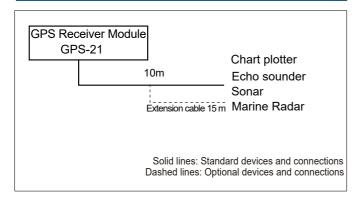
WAAS, EGNOS and MICHIBIKI enabled

SBAS, Satellite Based Augmentation Systems, are fully operated in USA (WAAS) and Europe (EGNOS). GPS-21 is able to receive the seamless correction signals provided from these systems.

SPECIFICATIONS

Model	GPS-21	
Receiving frequency	1575.42 MHz±1MHz	
Receiving channel	24 parallel channel	
Sensitivity	-168 dBm	
Positioning Position	GPS: 10 m (2 drms, SA=OFF, PDOP: 3 or less)	
accuracy	SBAS: 7 m (2 drms, SA=OFF, PDOP: 3 or less)	
Velocity	1 m/sec (rms, SA=OFF, PDOP: 3 or less)	
Tracking Velocity	972 km/h max	
Acceleration	1G or less	
Position updata interval	1 second	
Position fixing time Cold start	35 seconds (standard value)	
Differential RX input positioning	SBAS (MSAS, WAAS, EGNOS), QZSS (L1S)	
Data communication	Asynchronous data communication with RS-422	
	,	
Input data	Parameter setting	
Output data format	NMEA0183 Ver.2.3	
and sentences	(GGA, GLL, GSA, VTG, RMC, ZDA)	
Data level		
Output current	20 mA or less	
Power supply	10.8 to 31.2 VDC	
Power consumption	0.6 W or less	
Temperature Operation	-25℃ to +55℃	
range Storage	-30 °C to +70 °C	
Water protection	IPX6	

CONNECTIONS



MICHIBIKI (Quasi-Zenith Satellite System) is a Japanese satellite positioning system composed mainly of satellites with quasi-zenith orbit.

Four satellites take non-symmetrical figure-of-moons trajectory up and down, so that one satellite in the country will always be arranged in the zenith direction, complementing GPS positioning. Moreover, positioning accuracy can be improved by receiving sub meter-class reinforcement signals broadcast from the quasi-zenith satellite.

MICHIBIKI can be used in East Asia and Oceania area only.

EQUIPMENT LIST

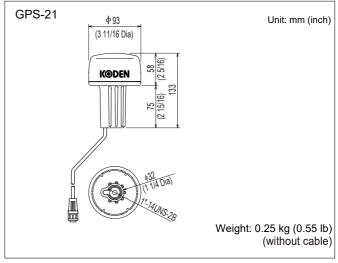
Standard Equipment

GPS		Туре В
Receiver Module	GPS-21	Cable: 10 m with 6P waterproof connector
Installation Manual		

Option

Connector (6 pin, waterproof type), Cable extension kit (15 m extension)

DIMENSIONS AND WEIGHT



• Design and specifications are subject to change without notice.



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To ensure proper and safe use of the equipment, please carefully read and follow the instructions in the Operation Manual.

For details, please contact: