

GPS Sensor GPS-20A MkII

Make Sense!

Seamless precise positioning anywhere, anytime



Parallel 24-channel GPS receiver

 \cdot WAAS, EGNOS and MICHIBIKI enabled

FEATURES

Precise and quick positioning

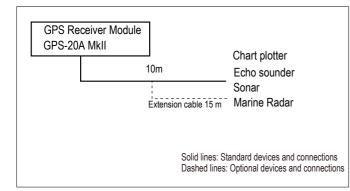
Parallel 24-channel receiver provides precise and quick positioning at any time.

WAAS, EGNOS and MICHIBIKI enabled SBAS, Satellite Based Augmentation Systems, are fully operated in USA (WAAS) and Europe (EGNOS). GPS-20A MkII is able to receive the seamless correction signals provided from these systems.

SPECIFICATIONS

Model		GPS-20A MkII
Receiving frequency		1575.42 MHz±1MHz
Receiving channel		24 parallel channel
		•
Sensitivity		-168 dBm
Positioning accuracy	Position	GPS: 10 m (2 drms, SA=OFF, PDOP: 3 or less)
accuracy	Velocity	SBAS: 7 m (2 drms, SA=OFF, PDOP: 3 or less)
Tasalian	,	1 m/sec (rms, SA=OFF, PDOP: 3 or less)
Tracking	Velocity	972 km/h max
	Acceleration	1 G or less
Position updata interval		1 second
Position fixing time Cold start		35 seconds (standard value)
Differential positioning	RX input	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	RS-422
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℃ to +70℃
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

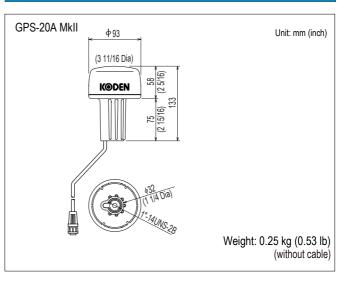
Standard Equipment

GPS Receiver Module	GPS-20A MkII	Type B 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: