

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.

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

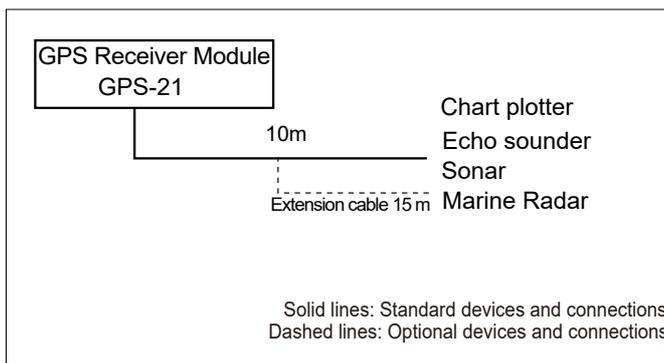
Four satellites take non-symmetrical figure-of-moons trajectory up and down, so that one satellite in the country will always be arranged in the zenith direction, complementing GPS positioning. Moreover, positioning accuracy can be improved by receiving sub meter-class reinforcement signals broadcast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

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

## SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Model                            | GPS-21  |
| Receiving frequency              | 1575.42 MHz±1MHz                                |
| Receiving channel                | 24 parallel channel                             |
| Sensitivity                      | -168 dBm  |
| Positioning accuracy             | Position  |
|                                  | Velocity  |
| Tracking                         | Velocity  |
|                                  | Acceleration                                    |
| Position update 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 and sentences | NMEA0183 Ver.2.3 (GGA, GLL, GSA, VTG, RMC, ZDA) |
|                                  | Data level                                      |
| Output current                   | RS-422  |
| Power supply                     | 20 mA or less                                   |
| Power consumption                | 10.8 to 31.2 VDC                                |
| Temperature range                | Operation                                       |
|                                  | Storage   |
| Water protection                 | IPX6  |

## CONNECTIONS



## EQUIPMENT LIST

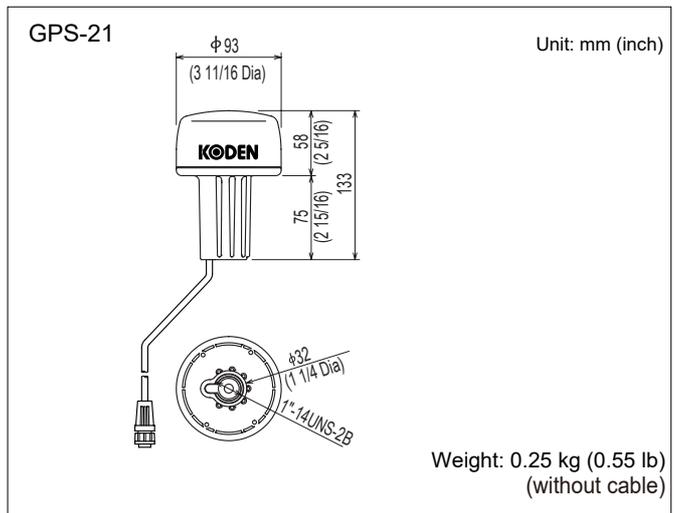
### Standard Equipment

|                     |        |   |
|---------------------|--------|---|
| GPS Receiver Module | GPS-21 | Type B<br>Cable: 10 m<br>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.



Le spécialiste des équipements électroniques

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