DGPS RECEIVER

DGPS 224

(JLR-4341)

- Internal Differential Beacon Receiver
- Capable of SBAS (WAAS/EGNOS/MSAS) correction
- RAIM function is available
- 12-Channel Parallel for simultaneous reception of 12 satellites
- IEC61162-1, NMEA0183 Output

JRC Japan Radio Co., Ltd.
**FEATURES**

**Internal SBAS receiver**
The DGPS224 includes SBAS (MSAS/WAAS/EGNOS) receiver. By using SBAS you can achieve precise position.

**Internal Differential Beacon Receiver**
The DGPS224 includes a beacon receiver and GPS receiver. By using DGPS you can achieve true DGPS accuracy.

**RAIM function**
The accuracy of position fixes is self-tested by the DGPS224. (RAIM function)
This function assures higher reliability to the position fix than conventional method.

**12-Channel Parallel for Receiving 12 Satellites Simultaneously**
The DGPS224 is designed to simultaneously receive signal from 12 orbiting satellites, ensuring the most accurate positioning. And also, typically 40 seconds for first position fixing without GPS almanac data.

**IEC61162-1, NMEA0183 Output**
Since the output data is changeable IEC61162-1, NMEA0183 version 1.5, 2.1 and 2.3, you can connect the DGPS224 to various marine electronics equipment such as marine radars, fishfinders, plotters or others.

**SPECIFICATIONS**

- Receiver type: Multichannel (12-CH, SBAS 1-CH) all-in-view
- Frequency: 1575.42MHz±1MHz (C/A code)
- Sensitivity: -135dBm for tracking
- Accuracy: 13m 2DRMS (C/A code, HDOP≤4, SA OFF)
- Time to first fix: Typically 40 seconds (cold start fix)
- Position update: Normally every 1 seconds
- DGPS input: RTCM SC-104 ver.2.0 type 1, 2, 7 available
- Data output: IEC61162-1, NMEA0183 ver.1.5/2.1/2.3 selectable
- Beacon frequency: 283.5~325kHz
- Selection of beacon S.T. Auto / Manual
- Geodetic datum: 46 (WGS-84, WGS-72, Japan, America, Canada/Alaska, Europe, Australia, England, NAD-83, other 37)
- Power: 12/24VDC +30%, -10% (less than 2.5W)
- Operating temperature: -25~+55°C

**COMPONENTS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>Qty</th>
<th>Remarks</th>
</tr>
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<td>DGPS Receiver</td>
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<td>1</td>
<td>Include 15m cable with connector</td>
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<td>Instruction manual</td>
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**SYSTEM CONFIGURATION**

**OUTLINE DRAWING**

*Specifications may be subject to change without notice.*