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Competitive Flexible GPS Systems

Product:	000-14127-001; 000-14128-001
Product Description:	P2005 & P3007 Navigation Systems
Software Version:	1.0.2-62.2.58
Effective Date:	April 2020
Inspect/Update Current Inventory:	Not required

The new P2005 and P3007 GPS CDUs (Control and Display Units) with 5" and 7" color LCD have been shipping since July 2019. During this time, they have been successfully installed as new systems and as replacements for older MX systems, using existing antennas, cables and junction boxes.

These new GPS displays offer a competitive and flexible solution to a wide number of different installations. The P3007 offers IMO solutions and the P2005 offers solutions to non-IMO installations for work boats and recreational vessels.





Competitive IMO approved GPS system

As beacon differential or DGPS is no longer a requirement for IMO vessels, the most competitive IMO approved GPS system is the P3007 combined with the GS70 GPS antenna. The antenna operates on GPS, GLONASS or combined GPS and GLONASS. With SBAS (WAAS, EGNOS and others) enabled, the position accuracy is ≤ 2 m 2D RMS and with selectable 1, 5 or 10 Hz update rates. The antenna cable is standard NMEA 2000®, which can be extended to 150 m or more. Advanced smoothing of the SOG and COG data sent from the antenna, can be adjusted from the display. The P3007 features two fully configurable IN/OUT NMEA 0183 ports for system integration.

Item no 000-14130-001 is a complete GPS kit, ready to install, consisting of P3007 CDU, GS70 GPS antenna, N2K starter kit, 20 m and 1.8 m N2K cables, terminator kit and finally an inline terminator.



Positioning and heading system

Combining the P3007 or P2005 with one of the GPS Compass', HS60, HS70 or HS80 will provide both positioning and heading.

The GPS Compass connects via NMEA 2000® and leaves the two serial ports on the CDU available for sharing data with onboard systems like radar, autopilot, chartplotter and more.

Replacing MX610 and MX612 CDUs

The IMO approved P3007 can directly replace the MX610 or MX612 using the same antennas and junction boxes. The same for the smaller P2005, but for non-IMO approved installations.

In addition to the NMEA 2000® port, the P2005 and P3007 feature two fully configurable NMEA 0183 IN/OUT ports, which also enables direct antenna connection for MX521x and MX575x antennas.

Replacing MX500, MX510 and MX512

The P3007 with junction box MX610JB or MX612JB, depending on the port requirement, can replace the older MX500, MX510 and MX512 using the same GPS antenna and antenna cable.

Note: A serial connected antenna can be connected directly to the local ports, leaving out the junction box. When direct antenna connection is enabled, port 1 is fixed at 19200 bauds and port 2 is default to 38400 bauds.

Replacing MX420 and older systems using serial connected antennas

As above, the P3007 with optional junction box, can replace the older system using serial connected antenna. It, however, will be necessary to replace the old MX421 GPS antenna as this may not provide the correct date and is not fully controllable from the P3007.

For more information:

Order Support: (800) 324-4737 x4702

Technical support: (918) 438-8668

You may also send any inquiries via email to the addresses listed below, according to your sales-group classification:

- orders@navico.com
- cmd.service@navico.com