

FURUNO

MARINE GPS/WAAS NAVIGATOR

with VideoPlotter function

Model GP-32

- Improved accuracy with built-in WAAS receiver
- 4.5" Silver Bright LCD display
- Multiple display modes to suit a variety of navigational requirements
- Up to 999 waypoints, 50 routes and 1,000 track points
- One-touch waypoint entry
- Customizable NavData screens
- Track Back feature stores waypoints at user defined intervals for early trace-back cruise
- Waypoint & Route upload/download through RS-232C port

The GP-32 is an advanced GPS navigator with a

WAAS receiver designed for coastal ships, fishing

boats and pleasure craft. The powerful processor

performs high-speed processing of position fixing

It comes with an easy to use track plotter which

extremely accurate position fixes. It is accurate to

10 meters, and with WAAS mode activated, it's

The Display modes include Plotter, Nav Data,

provides an intuitive indication of course to steer

ground or following a series of waypoints along a

strokes. The system has various alarm functions

to warn of arrival to or departure from a predefined

and cross-track-error (XTE). The Highway mode is

Steering, Highway, Speedometer and two customizable mode. The Steering Display

useful when you are heading for your fishing

The user-friendly design permits easy and

straightforward operation with minimum key

and augmentation using WAAS correction.

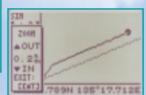
This compact and cost-effective unit offers

stores up to 1,000 track points.

accurate to within 3 meters.

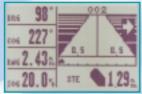


Speedometer



Plotter

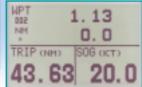




Highway



Steering

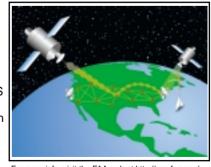


Customizable display

WAAS, Wide Area Augmentation System

is a GPS navigation system which applies correction data by means of geostationary satellites. The US FAA has been testing this system and others using Satellite-Based Augmentation Systems (SBAS); they expect more field tests in 2003. As the WAAS utilizes the same frequency as the GPS, a single antenna can receive GPS and WAAS signals. At the moment two Inmarsat GEOs are available, i.e., AOR-W and POR. Similar systems are under development in Japan (MSAS: MTSAT Satellite-based Augmentation System) and Europe (EGNOS: European Geostationary Navigation Overlay System). They are said to be fully interoperable and compatible. Major

contributors of an error in a single frequency GPS system is a receiver clock drift and signal delays by refraction. The WAAS reference stations on the earth monitor the GPS constellation and route GPS error data to the WAAS satellite via the master earth station. The Inmarsat or communication satellite broadcasts the differential corrections to users.



For more info, visit the FAA web at http://gps.faa.gov/

area (arrival/anchor watch), XTE exceeding a preset limit, Alarm Clock and more.

planned route.



The future today with FURUNO's electronics technology.

Catalogue No. N-847b

SPECIFICATIONS OF GP-32

GPS/WAAS

GPS: Twelve discrete channels. C/A **Receiver Type**

code, all-in-view, WAAS receiver: standard fitted in Display Unit

Receive Frequency L1 (1575.42 MHz)

12 seconds typical (Warm start) Time to First Fix

Tracking Velocity 999 knots

Geodetic Systems WGS-84 (and others)

DGPS

Reference Stations Automatic or manual selection Frequency Range 283.5 - 325.0 kHz (all ITU regions).

0.5 kHz steps

Accuracy

GPS 10 m (95%) **DGPS** 5 m (95%) **WAAS** 3 m (95%)

Display

4.5" diagonal 95(W) x 60(H) mm LCD, 120 x 64 pixels

Display Modes

Plotter, Highway, Steering, Speedometer, Nav Data and

2 pages Customizable display

Memory Capacity

1,000 ship's track points 999 waypoints with comments

50 routes, 30 waypoints/route

Alarms

Arrival, Anchor watch, XTE, Speed, WAAS/DGPS, Time, Trip, Odometer

Language

English, Spanish, French, German, Dutch, Italian,

Portuguese, Vietnamese, Japanese

Interface

Output (NMEA 0183 ver 1.5/2.0);

AAM, APB, BOD, BWC, GGA, GLL, GTD, RMA, RMB, RMC.

VTG. XTE. ZDA

Input:

YMWPL (YEOMAN wpt data in NMEA 0183)

DGPS data in RTCM SC104 ver 2.1

DGPS Capability

RTCM SC104 v.2.1 format in RS232C from FURUNO GR-80

DGPS Beacon Receiver

ENVIRONMENT (IEC 60945 test method)

Temperature

Display unit: -15°C to +55°C Antenna unit: -25°C to +70°C

Waterproofing

Display unit: IPX5 (IEC 60529), CFR46 (USCG)

Antenna unit: IPX6 (IEC 60529)

POWER SUPPLY

12-24 VDC, 240-120 mA

EQUIPMENT LIST

Standard

1. Display unit accommodating WAAS receiver 1 unit 2. Antenna unit GPA-017 with 10 m cable 1 set

3. Installation materials and spare parts 1 set

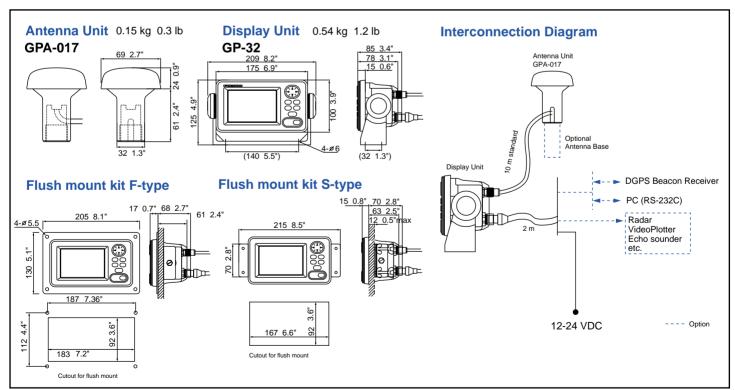
Option

1. Antenna base

CP20-01111 (Pipe mount), No. 13-QA330 (Deck mount),

No. 13-QA310 (Offset bracket), No. 13-RC5160 (Handrail mount)

2. Flush mount kit F type (OP20-18/29) or S type (OP20-17)



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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0211XVSS Printed in Japan