



GPS/Chart Plotter

FURUNO GP-170

ESPECIFICACIONES TÉCNICAS

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Alto rendimiento para Radar, AIS, ECDIS, Autopilot, Eco Sounder, otros Sensores para Equipos de Navegación y Comunicación.

Las capacidades mejoradas de rechazo de ruido están incorporadas en el chip del receptor GPS, lo que brinda un alto nivel de tolerancia hacia la mitigación de múltiples rutas. Además, la tolerancia hacia la mitigación de trayectos múltiples mejora cuando se utiliza la unidad de antena.

Amplia gama de información de viaje que se incorporará en las rutas.

Creación de rutas simplificada a través de la combinación con una PC externa (formato GPX).
Compartir la información de ruta activa con ECDIS para complementar la capacidad de monitoreo de ruta ECDIS.



CARACTERÍSTICAS

Product Name	GNSS NAVIGATOR	
Receiver		
Number of channels	GPS	12 ch
	SBAS	2 ch
	QZSS	4 ch
	GLONASS	10 ch
RX frequency	GPS/SBAS/QZSS	1575.42 MHz \pm 1.023 MHz
	GLONASS	1602.5625 MHz
Tracking code	GPS	C/A
	SBAS	C/A
	QZSS	C/A, L1S
	GLONASS	L10F
Accuracy*	GPS	not exceeding 10 m (2 drms, HDOP<4)
	DGPS	not exceeding 5 m (2 drms, HDOP<4)
	WAAS	not exceeding 3 m (2 drms, HDOP<4)
	MSAS	not exceeding 7 m (2 drms, HDOP<4)
	QZSS (SLAS) L1S	not exceeding 3 m (2 drms, HDOP<4)
Tracking velocity	1,000 kn	
Time to first fix	90 sec when cold start	
Position update rate	every 1 sec (standard); every 0.1 sec (max.) * * not available for GLONASS and SLAS modes	
Beacon receiver (optional internal kit)	Frequency range	283.5 to 325.0 kHz
	MSK rate	25*, 50, 100, 150, 200 bps * GLONASS only

* Dependent on ionospheric activity and multipath

Display Unit

Screen size	5.7" color LCD (116.16 mm x 87.12 mm)	
Resolution	640 (H) x 480 (V) pixels (VGA)	
Brightness	700 cd/m ²	
Display modes	Plotter, Highway, Course, Data, Integrity	
Plotter mode	Projection	Mercator
	Memory capacity	1,000 points for ship's track with comments up to 20 characters; 2,000 points for waypoints; 100 routes (containing up to 1,000 waypoints per 1 route)
Integrity mode	GNSS, Graph, Beacon	
Alert	Differential positioning interruption, HDOP overshoot, own ship positioning fail, own ship position lost, beacon signal lost, beacon malfunction, antenna short-circuit	
Notice	Arrival and anchor watch, XTE, Speed, Trip	
Integrity indication	Safe, Unsafe, Caution	

Interface

Ports		Serial ports: 2 ports (In/Out), 1 port (Out) IEC 61162-1, 1 port (In/Out) IEC 61162-2; Ethernet: 1 port IEC 61162-450; USB: 1 port (front panel)
Output	Serial	AAM, ALC, ALF, ALR, APA, APB, ARC, BOD, BWC, BWR, BWW, DTM, GBS, GGA*, GLL, GNS, GRS, GSA, GST, GSV, HBT, MSK**, MSS***, POS, QSM, RMB, RMC, Rnn, RTE, VDR, VTG, WCV, WNC, WNR, WPL, XTE, ZDA, RTCM sc104 **when either internal/external beacon receiver is used *** when internal beacon receiver is used
	Ethernet	AAM, ALC, ALF, ALR, APB, ARC, BOD, BWC, BWR, BWW, DTM, GBS, GGA*, GLL, GNS, GRS, GSA, GST, GSV, HBT, POS, QSM, RMB, RMC, RTE, VDR, VTG, WCV, WNC, WPL, XTE, ZDA
Input	Serial	ACK, ACN, CRQ, DBT, DPT, HBT, HDG, HDM, HDT, MSK, MSS, MTW, THS, TLL, VBW, VHW
	Ethernet	ACK, ACN, DBT, DPT, HBT, HDG, HDM, HDT, MTW, THS, TLL, VBW, VHW

* not available when using GLONASS

EQUIPMENT LIST

Standard	1. Display Unit	GP-170	1 unit
	2. Antenna Unit	GPA-017S	1 unit
		GPA-020S	1 unit
		GPA-021S*	1 unit
		GPA-022S	1 unit
		GPA-023S*	1 unit
* Selectable when a beacon receiver is incorporated into a display unit.			
	3. Antenna Cables	Selectable from 15 m/30 m/40 m/50 m	
	4. Installation Materials and Spare Parts		
Option	1. DGPS Receiver Kit	OP20-42	
	2. Antenna Cable	15 m/30 m/40 m/50 m	
	3. Network Cable	3 m with waterproof connector MOD-WPAS0001-030+	
	4. Flush Mount Kit	OP20-40/41	
	5. Antenna Base	NO. 13-QA330	
	6. Interface Unit	IF-2503	
	7. Rectifier	PR-62, PR-240	

ENVIRONMENT

Temperature	Display Unit	-15°C to +55°C
	Antenna Unit	-25°C to +70°C
Relative humidity	95% or less at 40°C	
Degree of protection	Display Unit	IP25
	Antenna Unit	IP56

POWER SUPPLY

12-24 VDC



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