

SPECIFICATIONS OF SC-50

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|-------------------------|--|
| 1. Accuracy | Heading 0.5° RMS |
| | GPS Fix 10 m (95%) |
| | DGPS Fix 5 m (95%) |
| | WAAS Fix 3 m (95%) |
| 2. Follow-up | 45°/s rate-of-turn |
| 3. Settling time | 3 min |
| 4. Interface | Number of ports 5 ports in AD-10 or 10 ports in IEC 61162-1/-2 |
| | 10 ports* 1 port can be utilized in menu selection AD-10 only |
| | Serial data sentence 25, 100, 200 ms, 1, 2 s data rate: |
| | 1, 2 s data rate: HDT, HDM(Heading), ROT(Rate of turn) ATT(Pitch and Roll) VHW(Heading), VTG, VBW(SOG), GGA, GLL, GNS(L/L), ZDA(UTC), VDR(Set and Drift) |
| | Log output 1 port: 200/400 p/nm (closure) |
| | Alarm output 1 port: Alarm signal (closure signal) |
| | Heading input 1 port: Backup Heading (AD-10/IEC 61162-1) |
| | DGPS Input HDT, HDG, HDM, VBW, VHW, VLW |
| 5. Receiver Type | 1 port: RTCM SC-104 format |
| | Twelve discrete channels. C/A code, all-in-view |
| 6. Receive Freq | L1 (1575.42 MHz) |
| 7. Display Unit | 4.5" Monochrome LCD, 95 (W) x 60 (H)mm, 120 x 64 pixels |
| 8. Display Mode | Steering, Nav Data, Compass Rose, ROT, Heading and Set and Drift modes |
| POWER SUPPLY | 12-24 VDC, 15 W |
| ENVIRONMENTAL | IEC 60945 for EMC, Vibration, Temperature |

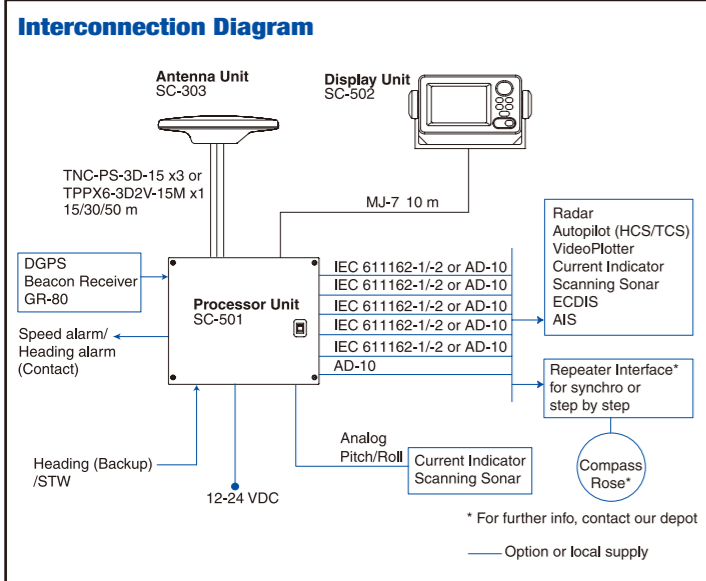
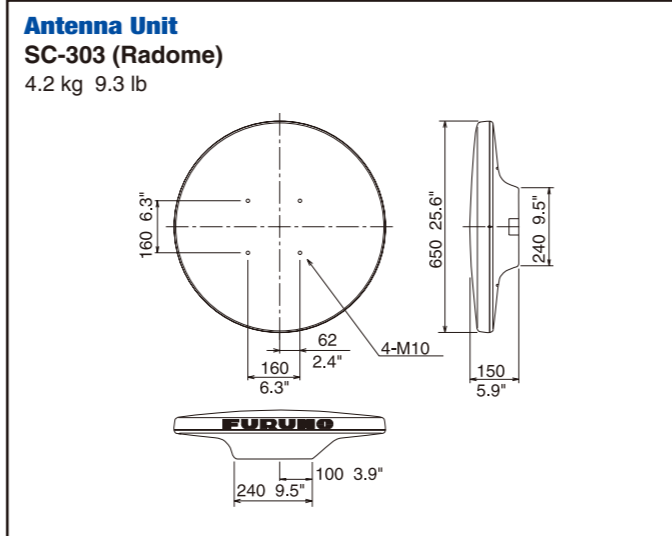
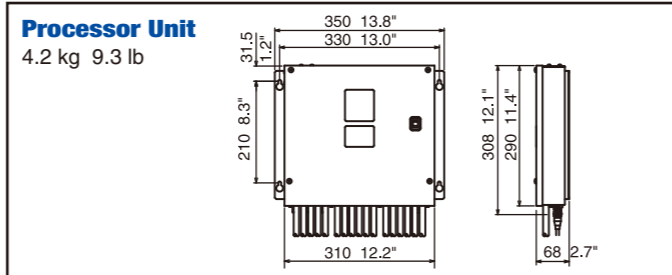
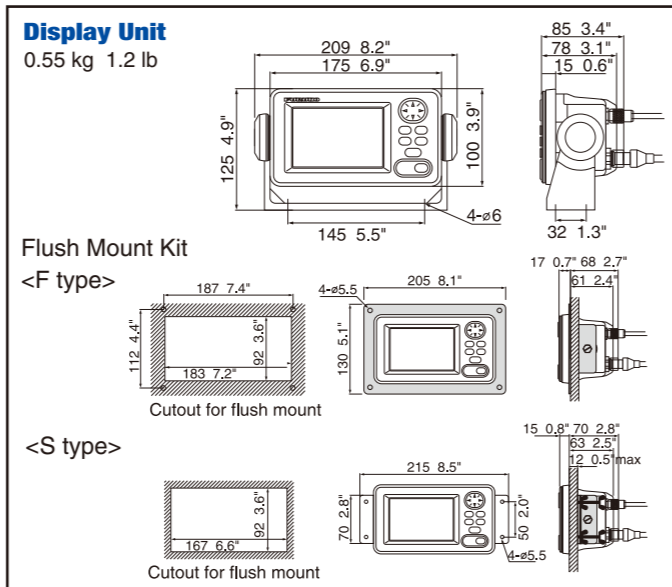
EQUIPMENT LIST

Standard

1. Display Unit SC-502 1 unit
2. Antenna Unit SC-303 or SC-603 with 15 m cable 1 unit
3. Processor Unit SC-501 1 unit

Option

1. Antenna Cable, 30 m CP20-01700, 50 m CP20-01710
2. Flush Mount Kit S type CP20-17, F type CP20-29



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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FURUNO

Revolutionary heading sensor with advanced GPS technology

SATELLITE COMPASS

Model SC-50



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FURUNO's advanced GPS technology ensures highly accurate heading data for AIS, ECDIS, Radar/ARPA, Autopilots and more.



Compass Rose Mode

- Heading accuracy 0.5° RMS complying with IMO MSC.116(73) as a THD (Transmitting Heading Device)
- Excellent follow-up rate of 45°/s exceeding requirements for high speed craft (20°/s)
- Pitch and roll output in both analog and digital formats for ship's motion correction for the FCV-30 and CH-250/270/300
- Tri-antenna system reduces the effect of pitching, rolling and yawing
- Free from regular maintenance
- Accurate SOG, COG, ROT and L/L
- High speed heading data output in IEC 61162-2 format (38.4 kbps)
- Output in IEC 61162-1/2 or FURUNO AD-10 formats is available: up to 10 ports in IEC 61162-1/2 or up to 5 ports in AD-10 or combination of IEC 61162-1/2 and AD-10 formats
- Individual setting of output sentences and baud rate in each port for flexible interface with external equipment
- Clear 4.5" silver bright LCD



Steering Mode



NAV Data Mode

The SC-50 is a satellite compass that uses FURUNO's advanced GPS technology. The satellite compass can be used for a wide range of applications for any type of vessel. Radar/ARPA, AIS, ECDIS, scanning sonar and the SC-50 uses GPS carrier frequency to determine heading, the performance is not affected by ship's speed, latitude, geomagnetism, etc. Settling time is almost instantaneous and the follow-up performance is excellent, achieving 45°/s (SOLAS HSC Code requires 20°/s as a minimum).

The SC-50 has a unique Set and Drift mode. In this mode set and drift (tide direction and speed) are calculated by connecting with a water-tracking speed log, such as the DS-80. This display mode helps a radar operator get accurate sea stabilized pictures by manually entering set and drift.

The SC-50 consists of antenna, display and processor units. The antenna is selectable from an open antenna featuring good performance under snowfall or a stylish Radome antenna. Each accommodates three GPS antennas.

The tri-antenna system helps reduce the influence of vessels' motions rather than dual-antenna system.

The satellite compass delivers GPS positioning, SOG (Speed Over Ground), COG (Course Over Ground) and ROT (Rate of Turn). SOG accuracy is achieved by decoding the Doppler shift in the received satellite signals. The information can be output in IEC61162-2 format, at the high update rate up to 38.4 kbps to satisfy the high speed data-output requirements in special applications.

The pitch and roll angle is output both in analog and digital formats to external equipment. For sonar or fish finders, the SC-50 can function as a highly accurate motion sensor through compensating the transmitted/received beams affected by pitch/roll. This results in the presentation of stable echo pictures even in rough seas.



Processor Unit



Heading Mode



ROT Mode



Set & Drift Mode

(Current (Set and Drift) and Distance Run is selectable.)

