### SPECIFICATIONS

**GENERAL**
- Receiving frequency: 1575.42 MHz (GPS L1/L2/L5)
- Accuracy of time sequence (UTC): LT/MT to MS figure (radionav)
- Waterproof: IPX7 (JIS C 9909:1998, radionav)
- Interface: 10Base-TX, RJ45 connector

**Power supply**
- 12-24 VDC: 2.1-1.1 A (including Antenna Unit and Display Unit)

**Other network function**
- IEC61162-450 transmission group
- PGN
- Output proprietary sentences
- Data sentences

**INTERFACE (JUNCTION BOX)**
- Number of ports (junction box): 8 ports (IN: 4, OUT: 8)
- Ethernet, 100Base-TX, RJ45 connector
- 4 ports, for heading output
- 1 port
- RTCM SC-104 V2.3 (RS-485), ITU-R M823

**DISPLAY UNIT**
- Model: SC-703
- Screen: 4.3-inch color LCD, 95.04 mm (W) x 87.12 mm (H)
- Resolution: 480 x 272 dots (WQVGA)
- Display mode: Rate of turn and Speed modes (Non-IMO types only)
- Contrast: 17 levels
- Brilliance: 1602.5625 MHz (GLONASS), 861 33”

**JUNCTION BOX**
- Model: SC-701
- Weight: 2.4 kg, 5.3 lb
- Rate of turn and Speed modes (Non-IMO types only)
- Heading, Nav data, 17 levels

**Power supply**
- Optional power supply unit: RP-900

**Environmental conditions**
- Ambient temperature: -25°C to +55°C (storage: -25°C to +70°C)
- Relative humidity: 85% max.
- Humidity: 30° to 80%RH
- Temperature: 0.7 kg, 1.5 lb

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

---

**EQUIPMENT LIST**

1. Antenna Unit
2. Display Unit
3. Junction Box
4. Installation Materials

**Antenna Unit**
- Model: SC-701
- Weight: 7.1 kg, 15.6 lb
- Position: Pitch/ Roll: 0.4° RMS
- Attitude accuracy: 90 s approx. (typical)
- Orientation: 0.1°, 0.01°, 0.001° (select from menu)
- Position fixing time: SC-130 0.25° RMS, SC-70 0.4° RMS

**Display Unit (Hanger)**
- Model: SC-702
- Weight: 0.7 kg, 1.5 lb
- Orientation: 0.1°, 0.01°, 0.001° (select from menu)
- Position fixing time: SC-702 0.2% of ship’s speed or 0.02 kn whichever is the greater
- Positional accuracy: 0.02 kn RMS (tracking satellites 5 or more)

**Display Unit (wall mount)**
- Model: SC-703
- Weight: 2.8 kg, 6.17 lb
- Orientation: 0.1°, 0.01°, 0.001° (select from menu)
- Position fixing time: SC-703 0.2% of ship’s speed or 0.02 kn whichever is the greater
- Positional accuracy: 0.02 kn RMS (tracking satellites 5 or more)

---

**MISC & SATD**

1. 129025/026/029/033/044/291/539/540/547, 059392/904, 060928, 061184, 065280
2. LTWMC-05BMMT-SL8001 x 1
3. LTWMC-05BFFT-SL8001 x 1
4. M12-05BFFM-010/020/060
5. OP20-47/48
6. FRU-RJ-PLUG-ASSY
7. RD-50
8. IF-NMEA SC
9. IF-2503
10. PR-240
11. SC-701 x 1
12. SC-702 x 1
13. SC-703 x 1

---

**Furuno Compass** is a trademark of FURUNO ELECTRIC CO., LTD. All brand and product names are registered trademarks, trademarks or service marks of their respective holders.
**High precision and accurate heading of 0.25° (SC-130)**

**Perfect for Radar, ECDIS, AIS, Sonar and Autopilot**

The SC-70 and SC-130 are the latest satellite compasses, built on FURUNO’s commercial-grade technology platform. These satellite compasses prove their value by increasing the accuracy of other devices, such as Radar, ARPA, Scanning Sonar, Current Indicator, Chart Plotter, ECDIS and Autopilot.

They provide a highly accurate heading input to these other technologies by utilizing the very latest GNSS (Global Navigation Satellite System). This satellite system is comprised of GPS, Galileo and GLONASS to ensure the highest precision and a continuous coverage.

The SC-70 and SC-130 provide a variety of data, including GPS Positioning, SOG (Speed Over Ground), COG (Course Over Ground), ROT (Rate Of Turn) and 3-axis speed (bow, stern and longitudinal).

All of these data assist with critical maneuvers, such as berthing.

These compasses are maintenance free and are a great asset for any vessel.

**SC-130 features a Tri-sensor antenna that provides a high system accuracy for the heading of your vessel**

- **0.25° (with SC-130)** Ideal for medium to large vessels navigating in crowded ports and making precise maneuvers, such as berthing.

- **0.4° (with SC-70)** Ideal for small to medium boats requiring highly accurate heading.

**Utilizes GNSS such as GPS, Galileo and GLONASS for high Precision**

- **SBAS compatible (EGNOS, WAAS, MSAS)**
- **Provide precise data for SOG, COG, ROT and LL**
- **Eliminating the problem of not having enough satellites at hand by using multiple types of satellites**

**Features**

- **SC-130 features a Tri-sensor antenna that provides a high system accuracy for the heading of your vessel**

- **Easily integrated into the existing shipboard network via Ethernet**

- **Rapid follow-up rate 40°/s** (twice the IMO high speed craft requirement, 20°/s)

- **Maintenance free and no recurring cost as there are no mechanical parts**

- **Super short starting time - 90 seconds**

- **Once the power is on, it takes about 90 seconds to start**

- **Easy to retrofit by using existing antenna cabling**

- **Precision Pitch/Roll data in Analog and Digital formats for Vessel Stabilization, SONAR, etc.**

**Display modes**

- 3-axis speed, as well as the Heading, Rate Of Turn and Current Over Ground can be grasped at a glance. (non-IMO type only)

**Navigational data screen**

- Current selected mode (SPD or THD), integrity status and common satellite number
- Transverse speed at bow position
- Transverse speed at stern position
- Distance travelled

**Speed mode**

- 3-axis speed of the ship: bow, stern and longitudinal (non-IMO type only)

**Interconnection Diagram**

- Standard supply
- Optional supply and local supply

**Display Unit**

- SC-701
- SC-702

**Antenna Unit (SC-130)**

- SC-1303

- Antenna Unit (for SC-130)

- Antenna Unit (for SC-70)

**Standard High contrast 4.3” Color LCD**

- (on the screen, the THD mode)

**SC-70**

**IEC61162-1 x8 (4In/8Out)**

**IEC61162-2**

**AD-10 Out x4**

**CANbus**

**IEC61162-450**

**Junction Box**

- SC-701

- SC-702

**12-24 VDC**

**FURUNO**

**Current selected mode (SPD or THD), integrity status and common satellite number**

**GPS satellites signal reception including signal strength and signal to noise Ratio**

**GPS integrity mode**

**SBAS signal status**

**GPS integrity mode**

**Display Unit**

- SC-701
- SC-702

**Antenna Unit**

- Antenna Unit (for SC-130)

**Antenna Unit (for SC-70)**

**Junction Box**

**Standard High contrast 4.3” Color LCD**

- (on the screen, the THD mode)

**SC-70**

**IEC61162-1 x8 (4In/8Out)**

**IEC61162-2**

**AD-10 Out x4**

**CANbus**

**IEC61162-450**

**Junction Box**

- SC-701

- SC-702

**12-24 VDC**