



FULL VERSION MANUAL

100FC



Art. no 38111 (MN), 38129 (ME), 38128 (MS)

SILVA MARINE COMPASS 100FC

100FC is a marine compass made for powerboats and sailing boats. It has a narrow design to fit any dashboard. This is the perfect compass for yachtsmen who demand absolute accuracy and a steady reading in all conditions.

Features include double scales, a built-in deviation compensator, integrated illumination in the adjustable protection cover, and four lubber lines that remain vertical even in rough seas. 100FC also has a built-in 3-part protection cover and a red back light (12V).

100FC is flush mounted with a dome size of 100 mm and a mounting hole size of 100 mm. It includes a foam gasket, mounting screws and a mounting template for easy mounting. This compass also includes a compensator screw driver. Max heeling angle: 30 degrees. Max pitch angle: 30 degrees.

This compass is available in MN, ME and MS balancing.

SILVA QUALITY

The Silva quality ensures durability and excellent readability; the capsule bowl is made from clear and scratch resistant acrylic. The combination of a sapphire jewel bearing and a hardened steel pivot minimizes friction, which in turn gives rapid and accurate movements. Silva marine compasses have a no-spin compass card is designed for perfect dampening and exact reading. You can trust that even when your boat is exposed to rough seas the gimballed suspension system makes sure the functionality is never disturbed hence you will always be able to read the compass accurately.

PRODUCT OVERVIEW

- Narrow design to fit any dashboard
- Suitable compass for most larger sailing and motor yachts.
- Flush mount
- Built-in illumination on upper scale. Enables night navigation.
- Built-in deviation compensator
- Double scales
- Protective cover – protects and prolongs the life of your compass.
- 4 Lubber lines – enables reading from different positions.
- The yellow main lubber line is curved to reduce parallax errors.

The packaging includes:

- Compass unit
- Compensator
- Mounting kit

ILLUMINATION

Built-in illumination for 12V.

Adaptation to 24V-illumination: connect 270 ohm, 0.5 W resistor in series.

POSITIONING

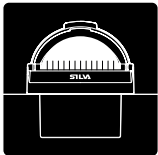
The compass should be positioned where it can be easily read from all angles, even in darkness when illuminated. Position the compass as far as possible away from iron objects or other disturbing magnetic sources as loudspeakers, windscreen wipers, instruments etc.

NB! Silva's electronic instruments do not disturb the compass.

When checking for magnetic disturbance, use an ordinary Silva handheld compass, held in the fore-and-aft direction around the intended mounting site. In most cases 0.5 to 1 metre between the compass and the source of disturbance will be sufficient. Do not forget to switch on all electrical equipment near the compass when making this check.

MOUNTING

FLUSH MOUNT



Silva 100FC is designed for horizontal flush mounting. It should be mounted in a steady base to prevent oscillation of the card. Mounting angle: pitch 0-15°.

1. Drill a hole with Ø 97 mm according to the mounting template. **NB!** Be sure to have a free depth of 60 mm minimum.
2. Pull to separate the base part and top part of the compass.
3. Place the base part in the hole, with the foam gasket between the compass and the deck to ensure water protection.
4. Make sure that the boat symbol (found on the base part) is facing towards the bow.



5. Drill the 4 screw holes as per the template. Mount the base part to the deck with the enclosed 4 screws. **NB!** Replacement screws must be of non-magnetic material. For all through deck mounting, sealing is recommended.
6. Align the top part of the compass in the fore-and-aft direction and mount it to the base part by clicking it into position. Make sure to pull the cable for the illumination through the hole in the base part before mounting the top part.



COMPENSATION AND DEVIATION

Compensation is recommended, if the deviation is more than 5 degrees, when the compass is in its normal mounting position.

If the error is less than 5 degrees, it is sufficient to produce a deviation table. Adjust by using a compensator (optional extra) and eliminate or at least reduce the errors that iron or other sources of magnetic disturbance may have on the compass.

When compensating, the boat should be in an area that is not affected by permanent- or electromagnetic disturbances.

1. Aim the boat due North and turn the "N/S" screw until the compass reading is 0°.
2. Aim the boat due East and turn the "E/W" screw until the compass reading is 90°.
3. Aim the boat due South. If the compass does not show 180°, turn the "N/S" screw until the error is halved. (E.g. If the error is 6° - turn the screw until the error is 3°)
4. Aim the boat due West. If the compass does not show 270°, turn the screw until the error is halved.
5. Go through the procedure again and check the adjusted values.
6. Check the compass every 20 degrees and produce a deviation table and deviation curve.

As the magnetic conditions in a boat are liable to change, we recommend checking of the compass once a year and always after installation of equipment which might affect the compass.

NB! Do not regard the compass as an accurate navigational instrument until the compensation is carried out and the deviation table is produced. Whenever in doubt, please seek the advice of a compass adjuster!

MAINTENANCE

To clean the compass, use a mild soap solution or detergent. Do not use strong solvents, such as spirit, acetone or petroleum.

The compass tolerates temperatures down to -30°C. It is advisable not to subject it to severe cold for long periods.

TECHNICAL SPECIFICATIONS

Type of compass: Sailing / Power boat compass

Illumination: Yes, 12V. Colour: red

Lubber lines: Yes, centre (front and back) and 2x side view at 45°

Gimballed cradle: Yes

Apparent card diameter: 100 mm.

Compensator: Yes

Card type: Cone

Card graduation: Edge: every 5° Top: every 5°

Heeling angle: Roll: 30° Pitch: 30°

Heeling angle scale: No

Mounting: Flush

Mounting angle: pitch 0° to +15°

Temp operating range: -10°C to +70°C

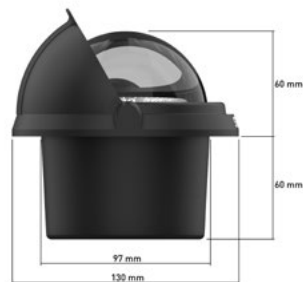
Storage temperature: -30°C to +70°C

Adjustable cover: Yes

Material: Acrylic/ABS

Weight: 668 g

Dimensions:



PROTECT THE ENVIRONMENT.

The Compasses should be recycled and must not be thrown in the regular trash. Dispose these items in accordance with applicable local regulations.

For more information please visit www.silvasweden.com