

# SILVA

## FULL VERSION MANUAL

# 102B/H

Art.no 37198-0011 (MN), 37198-0013 (ME), 37198-0015 (MS)



### SILVA MARINE COMPASS 102B/H

SILVA 102B/H is especially suitable for sailing boats, motor sailing vessels and larger motor yachts. The compass permits up to 45° heeling and unlimited tilting fore and aft.

SILVA 102B/H is supplied with a yellow main lubberline and two yellow aid lines 45° on each side of the main lubber line. It has a built-in clinometer +/- 45°.

The compass is delivered with built-in illumination.

The compass can be supplied with compensators as an optional extra.

### PRODUCT OVERVIEW

The packaging includes:

- Compass unit
- Illumination
- Mounting kit

### ILLUMINATION

This compass can be supplied with illumination 12 V.

Adaptation to 24V-illumination connected in series by a resistor of 270 ohm, 0.5 W.

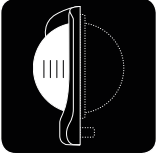
### PROTECTION COVER

SILVA 102B/H comes with protection cover as standard.

### POSITIONING

SILVA 102B/H should be positioned vertically or sloping (max 30°). Vertically only, if a compensator is fitted.

#### BULKHEAD MOUNT



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 loud speakers, windscreen wipers, instruments etc.

**NB!** SILVAs 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

SILVA 102B/H is intended for flush mounting.

The compass must be mounted exactly at right angles to the boat's longitudinal direction.

**NB!** Do not take it for granted that for instance a bulkhead is at a right angle to the boat's longitudinal direction. Drill a hole by using the enclosed template. The compass must have a certain mounting depth, otherwise the compass' expansion membrane is affected, which could lead to leakage. Loosen front plate of the compass by pressing the hatch on the bottom side and mount the compass to the bulkhead with the four screws supplied.

### 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.

Compensation is made with the two compensation adjuster screws "E/W" and "N/S" in order to reduce the errors caused by iron objects or other sources of magnetic disturbance. The compensation adjuster screws are situated at the compass lower front edge.

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/bulkhead mount compass

**Illumination:** Yes, 12V. Colour: red

**Lubber lines:** Yes, centre and side view at 45°

**Gimbal cradle:** Yes

**Accuracy:** ±0.5°

**Apparent card diameter:** 100 mm (3.9 inch)

**Compensator:** Optional (Art. no 36423)

**Card type:** Cone

**Card graduation:** Edge: every 5°, Top: Intercardinals

**Heeling angle:** Roll: 45° Pitch: 30°

**Heeling angle scale:** Yes

**Mounting:** Bulkhead

**Mounting angle:** +10° to +110°

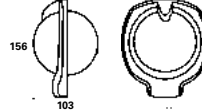
**Temp operating range:** -10°C to +70°C (14°F to 158°F)

**Storage temp:** -30°C to +70°C (-22°F to 176°F)

**Material:** Acrylic/ABS

**Weight:** 645 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.silva.se](http://www.silva.se)



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for more information about the  
Waste Electrical and Electronic  
Equipment (WEEE) Directive.