



Model F-2000



0098

- ★Dual frequency navigation sounder
- ★Type-approved by DNV AS

Featuring:

IMO resolution-compliant dual-frequency navigation sounder housed in electro-statically shielded ABS plastic cabinet

Certified to comply with EU Marine Equipment Directive (MED) and other applicable international standards for wheel mark certification

7-analog color, easy-on-the-eye echogram across 8.0" long-life CFL-backlit daylight readable LCD screen

Fully automatic operation, tracking bottom contour with appropriate range, transmit power, receiver gain and TVG settings. Manual override is possible.

Stores up to 24 hours of sounding history for off-line applications, together with date, time stamping and with position coordinates (optional GPS sensor with NMEA data outputs required).

Externally acknowledgeable navigational and failure alert by IEC defined software commands

Password-protected to prevent unauthorized changes to important system parameter settings

Optional AC-DC converter AC-2000 is available for 24V DC supply. Wide range input voltage for 100V ~ 220V.AC Automatically switch to emergency 24VDC when AC supply is not available.

Specifications:

Transducer Frequencies: 50 and 200kHz (single housing) or separate single frequency transducers optionally available.

Screen: 8.0" CFL-backlit LCD, daylight-viewing, VGA (640x480 pixel) resolution

Depth Ranges: 5 to 1000m in 8-range steps, automatic/manual selection; fathom/braccia/foot calibrations selectable

Minimum Detectable Depth: Better than 50cm (200 kHz), 1m (50 kHz)

Transmit Power: Approx. 1 kW RMS with automatic selection of optimum power level and pulse length for range in use

Soundings Data Storage: Up to 24 hours in non volatile memory; retrievable from INS device to RS-422 port

Digital Interfaces: 1 X RS-422 port, 1 X RS-232C port, 1 X 8-pin I/O DATA port (NMEA-0183/RS-232C level)

Power Requirements: 11 to 40VDC, approx. 17W

Cabinet Weight: Approx. 2.4 kg (with mounting bracket)

Environment: Compliant with IEC 60945-2002 (protected category), IPX4

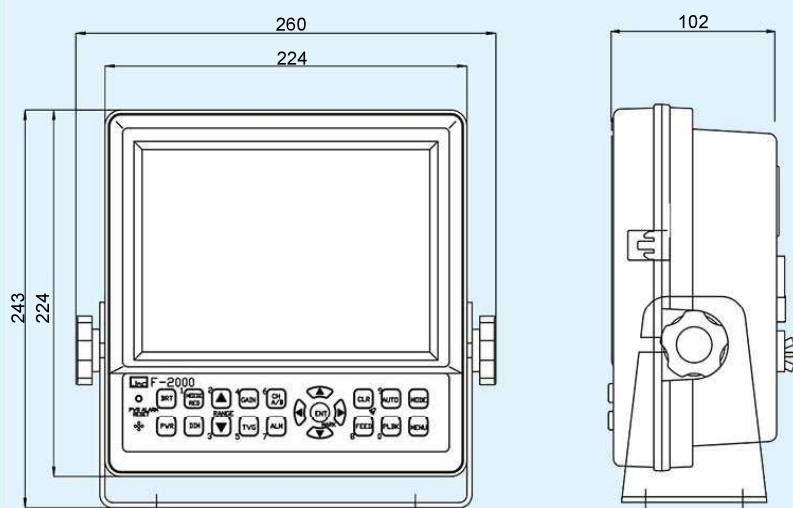
Compass Safe Distances: 2.4m(standard) with bracket attached

Optional AC power adapter: AC-2000

Major Compliant Standards: IEC 60945(2002), IEC 61162-1(2016), -2(1998), IEC 62288(2021) IEC 62923-1, -2(2018), ISO 9875(2000)

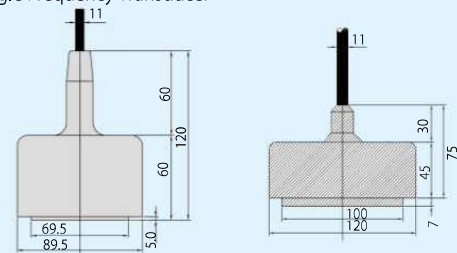
NOTE: Specifications are subject to change without notice or obligation.

Dimensions (mm)



Transducers

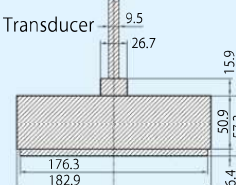
Single Frequency Transducer



- TGM60-50-20L (50kHz)
- TGM50-200-10L (200kHz)

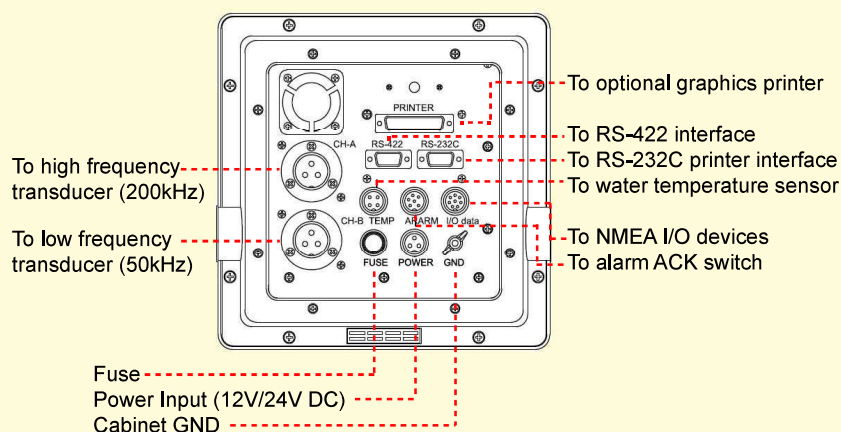
- TGM80-200-20L (200kHz)

Dual Frequency Transducer



- 570-50/200T-15L (50/200kHz)

System Configuration



Standard Equipment

(1 pc. each, except as specified):

- Display unit : F-2000 Navigation Sounder
- Power Supply Cable (3m, terminated in 3 pin)
- Mounting bracket with 2 pcs. knobs
- Fuses (2A/32V X 2, 3A/24V X 2, 5A/12V X 2)
- Plugs:
 - 6-pin plug for ALARM OUT receptacle x 1
 - 8-pin plug for I/O receptacle x 1
- User Manual
- Selected Transducers TGM Series
 - TGM60-50-20L : Transducer (50kHz) with 20m cable
 - TGM50-200-10L : Transducer (200kHz) with 10m cable
 - TGM80-200-20L : Transducer (200kHz) with 20m cable
 - All TGM Models : Plug for Transducer HS21P-3 X 2
 - Plug for Temp. Sensor 4-pin plug X 1
- Selected Transducer 570-50/200T-15L
 - Dual Freq. Transducer (50/200kHz) with 15m cable
 - Plug Adapter (with 2 X 3-pin plug, 1 X 4-pin plug, 1 X 7-pin plug)