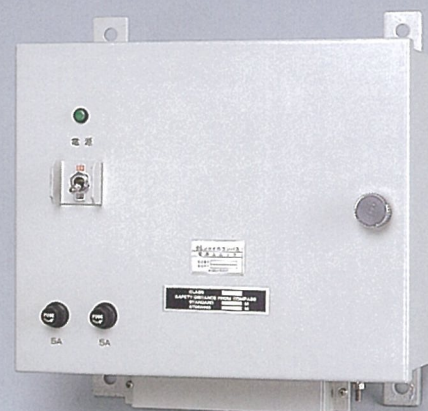
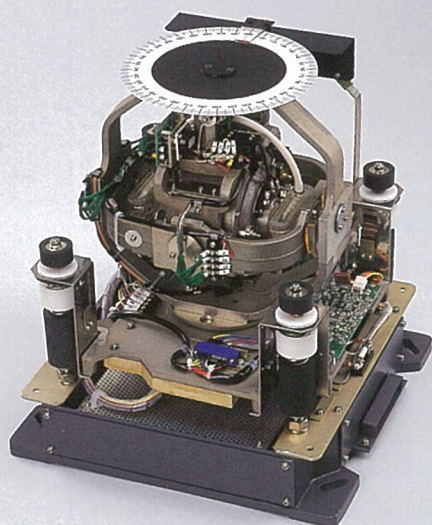


## Compact Gyrocompass

# ES-110

Synchro Motor Output



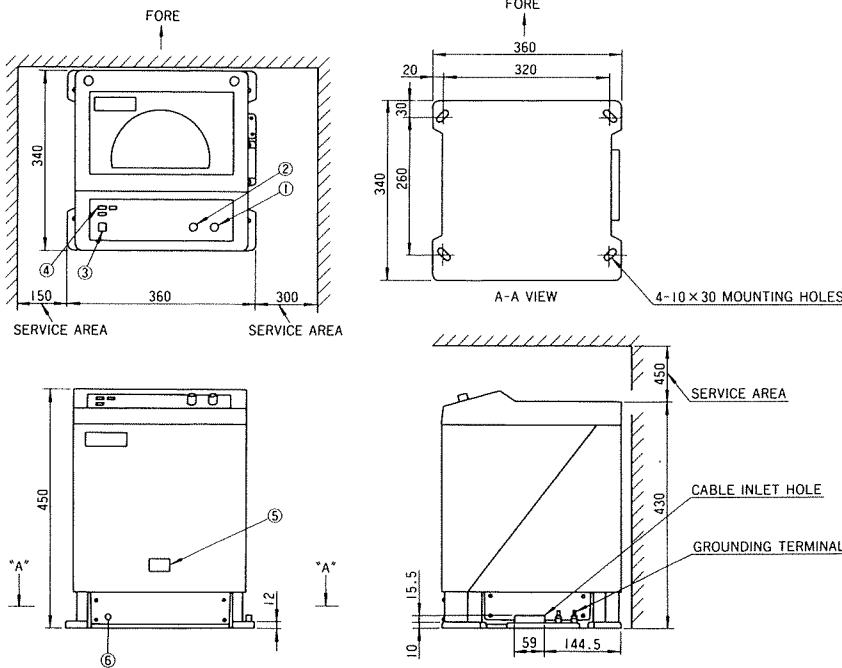
Model ES-110, the newest type of ES series, is a compact and popularized gyrocompass. It is especially designed for medium and small vessels' uses, by TOKYO KEIKI's latest mechatronics technology.

ES-110 gyrocompass can also be used as a direction sensor for a lot of navigational equipment.

# Compact Gyrocompass ES-110

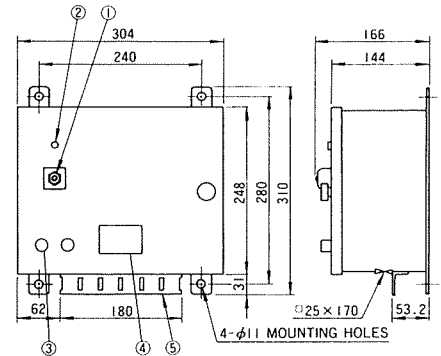
## ● Dimensions

Master Compass MASS 32 kg



No.	NAME	No.	NAME
1	POWER SWITCH	4	INDICATING LAMPS
2	LAT. CORRECT KNOB	5	NAME PLATE
3	DIMMER SWITCH	6	FUSE

Power Supply Unit MASS 12 kg



No.	NAME
1	POWER SWITCH
2	RUNNING LAMP
3	FUSE
4	NAME PLATE
5	CABLE CLAMP

## ● Basic Specifications

Main Power Supply	AC100V 1 $\phi$ 50/60 Hz for Master Compass at starting 250 VA in normal operation 100VA for one Repeater Compass 40VA Voltage Fluctuation - 20% ~ + 30 % Frequency Fluctuation $\pm$ 5 %
Emergency Power Supply	DC24 V (only for Master Compass)
Ambient Temperature	- 10 °C ~ 50 °C (at operation)
Settling Time	within 4 hours at Latitude 35°
Settling Point Error	less than $\pm$ 1°
Follow-UP Speed	24°/sec
Gimbal Freedom	$\pm$ 40° for both rolling and pitching
Latitude Error Correction	Manual (0 ~ $\pm$ 70°)
Repeater Type	90 $\times$ Synchro Motor AC100 V 50/60 Hz (7 circuits)
Optional Output	1 $\times$ Synchro (15C $\times$ 4)

Design and specifications are subject to change without prior notice, and without any obligation on the part of the manufacturer.



**CAUTION**

Before operating this equipment, you should first thoroughly read the operator's manual.

# TOKYO KEIKI

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