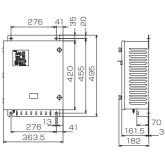
Equipment dimensions

Sensor Unit Mass: 8kg

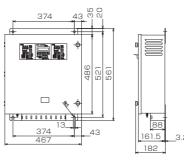
Control Unit

Mass: 14.5kg

Type S (Single gyrocompass system)



Type D (Dual gyrocompass system)



Mass: 23kg

Unit:mm

Specifications

General specifications	Main power supply	AC100/110/115/220V 1Φ 50/60Hz	
	Emergency power supply	DC24V	
	Power consumption	Starting	15VA
		Operating	15VA
		Repeaters	150VA (*1)
	Output signal	Step signal (for repeaters)	DC24V 1/6° 3Φ 4 ports (*2)
		Serial signal	IEC61162-1 or IEC6112-2 10 ports
		Rate of turn (analog signal)	±5V/ 30° /min
			±10V/120° or 300° /min 3 ports
		Alarm transmission (serial signal)	1 port
		Dry contact (operation, alarm)	
	Input signal	Speed	Dry contact 200 or 400p/nm
			Serial signal IEC61162-1
		Position (GPS)	Serial signal IEC61162-1
		External heading input	Serial signal IEC61162-1 or -2
		Alarm transmission (serial signal)	1 port
		Dry contact (operation, alarm)	
Performance specifications	Settling time	Less than 30 mins	
	Settling accuracy	Less than 0.25° secλ (RMS) (*3)	
	Accuracy on scorsby table	Less than 0.3° secλ (RMS) (*3)	
	Accuracy under environmental variation	Less than 0.3° secλ (RMS) (*3) (ISO8728/ISO16328)	
Environmental conditions	Permissible angle	±90° (pitch, roll)	

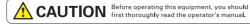
(%1) Voltage consumption when using all repeater output ports. The maximum number of repeater output ports (step and or serial outputs in total) for TF-900 is 9 ports.

(*2) This is the standard number of ports for repeaters. The number of ports might be changed according to the product specification.

(*3) RMS error (Mean Square Error) is different from the Maximum error. Maximum error would be approximately three times larger than RMS error



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



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Marine Systems Company

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FIBER OPTIC GYROCOMPASS

TF-900



FAX.+65-6254-1745

Fiber optic technology, changing the way we know gyrocompass.

Complies with the latest international maritime requirements and major classification societies.



Even as a high performance system utilizing the latest inertial navigation technology, it is NOT subject to the List Control of Japan for export.



The sensor unit contains NO movable parts meaning NO periodic overhaul. When compared to mechanical gyrocompass, Fiber Optic Gyrocompass contributes to running cost savings.



Settling time within 30 minutes after the application of power. Much faster than mechanical gyrocompass allowing for quicker departure.



Dual gyrocompass configuration (including connection to Tokyo Keiki mechanical gyrocompass (TG series) is available.



The operating procedures and optional items (accessories) are the same as those of our conventional mechanical gyrocompass (TG-8000 series). Therefore the operator can feel at ease when using TF-900 exactly same as the conventional TG-8000 series mechanical gyrocompass.



We provide a complete and worry free after service support backed by our technical expertise of fiber optic technologies and experience as long-established gyrocompass manufacturer.





■ Dual gyrocompass system configuration is available

In addition to single gyrocompass, TF-900 dual system configuration is also available.

Moreover, TF-900 can be incorporated with mechanical gyrocompass (TG series) for dual gyrocompass configuration.



Dual gyrocompass system

■ Easy to retrofit from mechanical gyrocompass (TG-8000 series)

Retrofitting is easily done by ONLY replacing the master compass (TG-8000 series) with a new sensor unit (TF-900) and making a slight modification on the existing control unit. Possible to retrofit in one day during the vessel's port call. (*Details of the retrofit procedure might be different according to models and specifications of existing gyrocompass.)



Existing single gyrocompass system

Available to add as additional (No.2) sensor

TF-900 can be added to an existing Tokyo Keiki single gyrocompass system as an additional sensor via the AGI unit (Additional Gyrocompass Interface unit).

In the event of gyrocompass trouble, the sensor can be quickly changed/switched to the additional sensor supporting safe and secure navigation. Existing accessories (repeaters etc.) can be used as they are without any modification or changing.



Existing single gyrocompass system

Additional (No.2) sensor