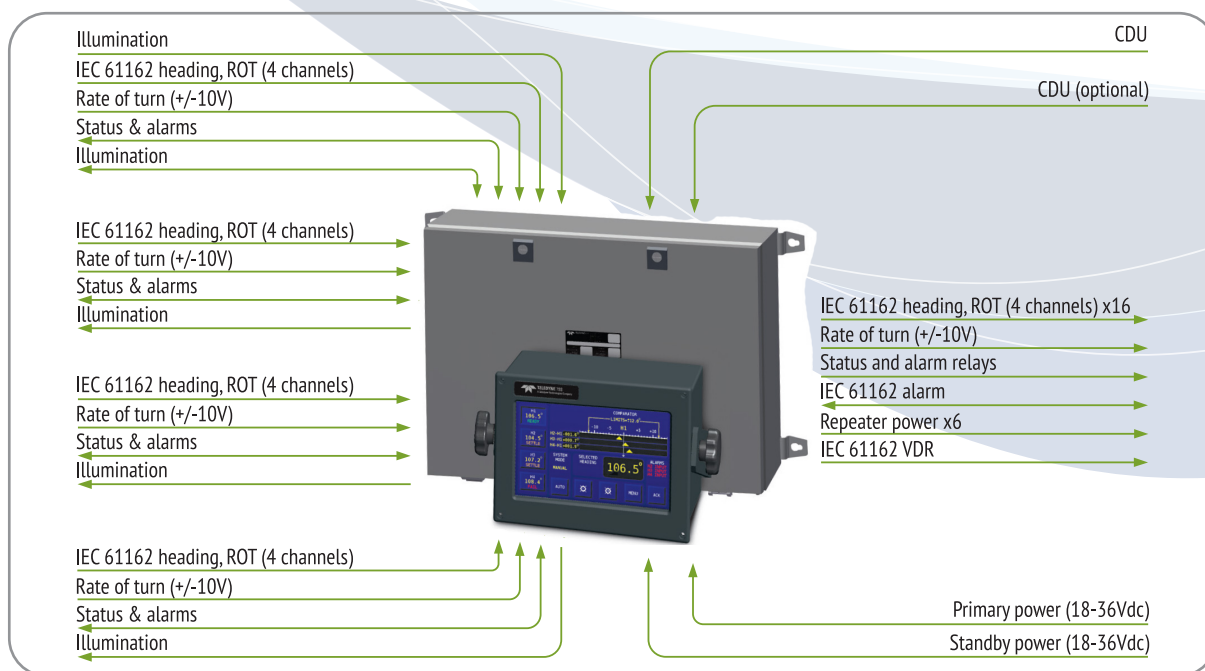


Gyrocompass Changeover System

The Teledyne TSS Gyrocompass Changeover System (GCS) has been developed to ensure that your navigation system is continuously supplied with heading information from a bank of up to four connected heading devices, such as the TSS Meridian or Saturn gyrocompasses. The selection of the heading source can be carried out either manually or automatically. Retransmission circuits are housed in a rugged enclosure suitable for bulkhead mounting.

The operational interface is via either one or two connected control and display units. The display units incorporate colour LED TFT touch panel technology and provide all operational controls and displays in a clear format for interpretation at a glance. The system is designed to meet the important requirement that no single failure within it shall result in loss of heading information to receiving devices.



PRODUCT FEATURES & BENEFITS

- Easy installation and configuration
- Supports up to 4 connected gyrocompasses
- 16 x IEC 61162 serial data outputs
- Comprehensive status and alarm interface
- Dedicated output for VDR
- Manual or automatic switching of heading source
- Performs comparison of heading inputs
- Supports connection of up to 2 colour TFT touch panel control and display units
- Central illumination control for CDU and connected gyrocompasses
- Type approved to the Marine Equipment Directive



Gyrocompass Changeover System



TECHNICAL SPECIFICATIONS

Signal Interface Unit

Power Supply Unit	Primary Power Supply	18 - 36Vdc
	Standby Power Supply	18 - 36Vdc
Signal Inputs	Connected Heading devices	4 x Gyrocompasses or THD
	Data Inputs From Each Heading Device	4 x IEC 61162-1 or IEC 61162-2 data channels (THS, HDT, HDG, HDH, ROT sentences) (Input 1 requires heading)
		1 x Analogue rate of turn (± 10 Vdc)
		1 x Alarm and acknowledge relay interface
		1 x Status relay
Signal Outputs	Illumination	1 x IEC 61162-1
	Serial Data (heading and rate of turn)	16 x IEC 61162-1 or IEC 61162-2 (depending on input)
Interface	Rate of Turn	1 x Analogue (± 10 Vdc)
	Alarm and Status	1 x Alarm and acknowledge interface to central alarm panel (For active heading device)
		2 x Alarm (for active heading device)
		2 x Status (for active heading device)
		4 x Alarm (1 x relay for each connected heading device)
		4 x Status (1x relay for each connected heading device)
		2 x Auto changeover
		1 x Heading comparison alarm
		1 x Standby PSU alarm
		1 x General system alarm
	VDR	1 x IEC 61162-1
	Alarm	1 x IEC 61162-1 alarm and acknowledge interface to central alarm panel
	Power Outputs	Repeater Power
Physical	Dimensions	400mm (inc. mounts 482mm) (h) x 540mm (w) x 133mm

Control and Display Unit(s)

Power Supply Input	Redundant Power Supply	18 - 36Vdc (supplied from SIU)
Communications	Communication with SIU	1 x RS422
Display	Display Type	7" widescreen colour TFT touch panel
Physical	Dimensions	2144mm (h) x 192mm (w) x 121mm (d)
	Weight	1.6kg

Environmental and EMC

Compliance	Complies with IEC 60945	Weather protected equipment
	Ingress Protection	IP23

Standards and Approvals

	Marine Equipment Directive 96/98/EC and amendments, IMO A.694 (17), IMO MSC.191 (79), IEC 60945, IEC 62288
Warranty	12 months international warranty including parts and labour

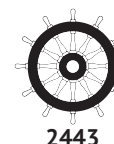


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Specifications subject to change without notice.
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