

Gyrocompass Changeover System

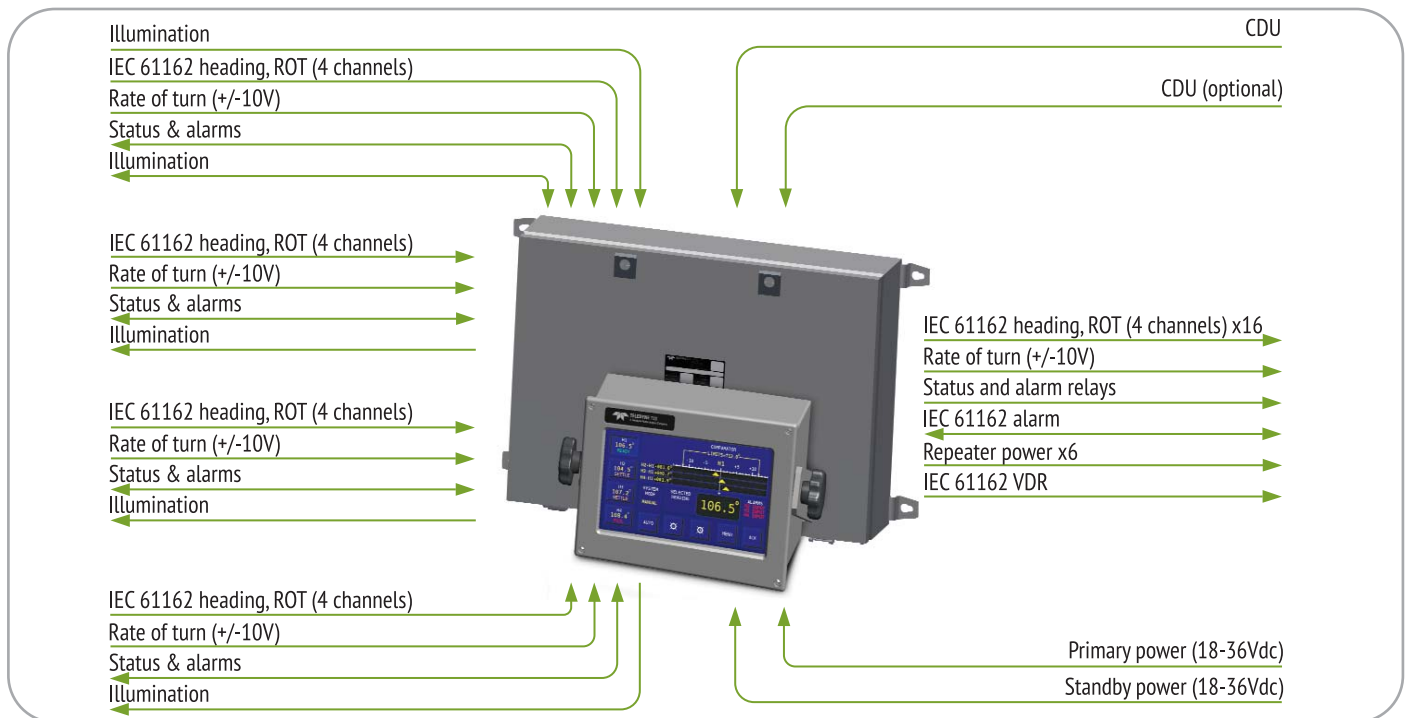
The gyrocompass changeover system has been developed for safety of navigation combined with ease of operation.

The system supports the connection of up to four Meridian gyrocompasses, switching the selected heading source either manually or automatically to receiving ship's equipment.

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

- 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 and complies with DNV rules for nautical safety

Gyrocompass Changeover System

Navigation Systems

TECHNICAL SPECIFICATIONS

SIGNAL INTERFACE UNIT

Power Supply Input	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
	Illumination	1 x IEC 61162-1
Signal Outputs	Serial Data (heading and rate of turn)	16 x IEC 61162-1 or IEC 61162-2 (depending on input)
	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 (1 x 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	6 x 18 - 36Vdc
Physical	Dimensions	400mm (H) x 540mm (W) x 120mm (D)

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	144mm (H) x 196mm (W) x 100mm (D)
	Weight	1.6Kg

ENVIRONMENTAL AND EMC

	Complies with IEC 60945 Ingress Protection	Weather protected equipment IP23
--	--	-------------------------------------

STANDARDS AND APPROVALS (PENDING)

	Marine Equipment Directive 96/98/EC and amendments IMO A.694 (17) IMO MSC.191 (79) IEC 60945 IEC 62288 DNV Nautical Safety (AW/OC) DNV Nautical Safety (OSV)
--	--

Warranty 12 months international warranty including parts and labour.

**COMPANY WITH
MANAGEMENT SYSTEMS
CERTIFIED BY DNV**
= ISO 9001 =
= ISO 14001 =

Specifications subject to change without notice.
© 2012 Teledyne TSS, Inc. All rights reserved.



www.teledyne-tss.com

Head Office
1 Blackmoor Lane,
Croxley Green Business Park,
Watford, Hertfordshire
WD18 8GA, UK
Tel: +44 (0)1923 216020
Fax: +44 (0)1923 216061
Email: tsssales@teledyne.com

Aberdeen
10 The Technology Centre,
Aberdeen Science & Energy Park,
Claymore Drive, Bridge of Don,
Aberdeen AB23 8GD, UK
Tel: +44 (0)1224 707081
Fax: +44 (0)1224 707085
Email: tsssales@teledyne.com

Houston
10801 Hammerly Blvd,
Suite 128,
Houston TX 77043, USA
Tel: +1 713 461 3030
Fax: +1 713 461 3099
Email: tsssales@teledyne.com