

RUDDER INSTRUMENTATION / RUDDER ANGLE TELEGRAPH SYSTEMS

MD310TS EMERGENCY DUAL RUDDER ANGLE TELEGRAPH SYSTEM

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FEATURES

- **An Emergency Backup Command and Response Telegraph System**
- **Allows manual vessel steering when the main power systems have failed**
- **Two units operate together over a simple dc connection**
- **Audible and visible alerts**
- **1x Twin Head Unit is located at the Command Station**
- **2x Single Head Units are supplied; one for each Steering Compartment**
- **Simple and rugged marinised design**
- **Rotary Dimming Controls**

OVERVIEW

The MD310TS Dual Rudder Angle Telegraph System is an emergency system which derives its power from a safeguarded backup DC power supply. The MD310S system conveys angular steering commands from the wheelhouse to the steering crew located at a remote station in the vessel's steering gear compartment. In this way, the vessel can be safely steered when the main power has failed.

One MD310S Single Head Unit is located in each of the two steering compartments and one MD310T Twin Head Unit is located at the command station in the wheelhouse.

Steering commands are displayed in degrees by a moving pointer (also known as a bug) on the remote angular display unit situated in the steering compartment. The steering crew can then comply by moving the rudders to the required angular position by hand and then respond to this by confirming the response angle and pressing the Alert button.

The MD310TS Dual Rudder Angle Telegraph System from Marine Data: Easy to install and simple to maintain.

APPLICATIONS

- The Marine Data Dual Rudder Angle Telegraph System is an emergency backup system, designed to provide a simple and reliable means of steering a vessel by hand in the event of a catastrophic main power systems failure at sea.

RELATED PRODUCTS

MD310SS - Emergency Rudder Angle Telegraph System

MD04UPS – Uninterruptible Power Supply

SPECIFICATIONS

PHYSICAL	
Weight:	**MD310S** 1.65 kg; **MD310T** 3.0 kg
Dimensions:	**MD310S**: H 170 mm; W 186 mm; D 135 mm; Fascia 144 x 144 x 6 mm; Dial Ø 118 mm **MD310T**: H 144; W 288; D 117.5 (excl. cable); Dials Ø 118 mm
Mounting:	**MD310S** Single Head Unit: Panel or Bracket Mounted **MD310T** Twin Head Unit: Pane Mounted Only
Connections:	Captive cable
Construction:	Aluminium alloy enclosure
Finish:	Window Grey (RAL7040) Semi-gloss Powder Coat

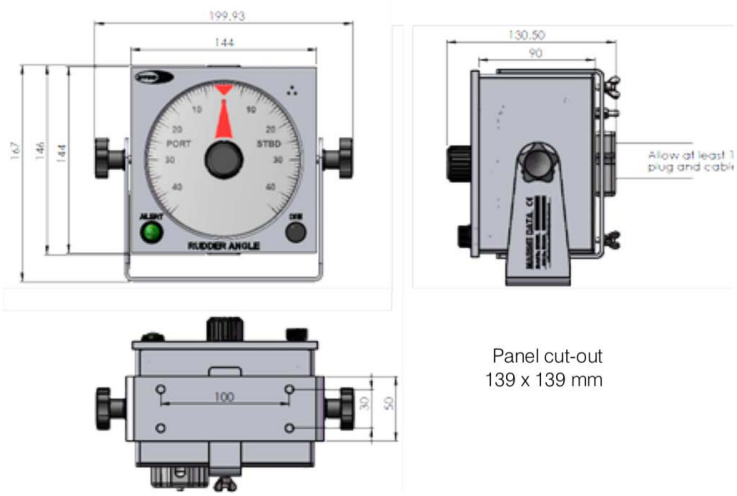
ELECTRICAL	
Power Supply:	MD310S: 24 V dc (18-32 V) 4 W nominal MD310T: 96 – 260 V ac
Data Input:	Variable dc voltage; alert signal
Cable:	2.5 m multicore captive; bare tails

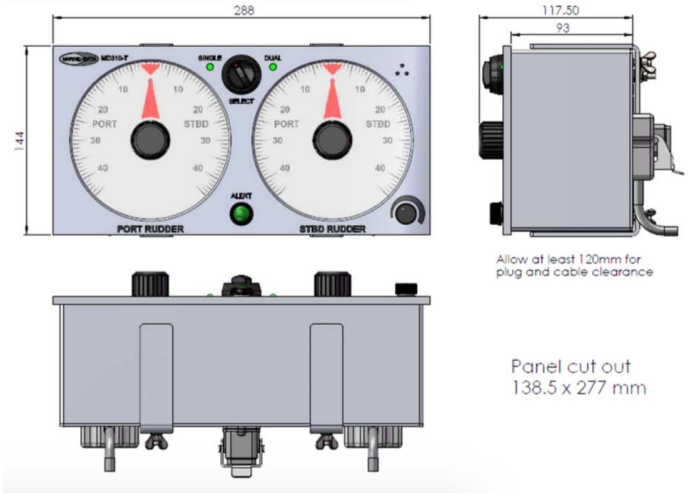
APPROVALS	
Conforms with:	IEC60945

OPERATIONAL	
Performance:	± 2.5° accuracy
Follow-Up Rate:	6° per second
Display:	Moving pointer against a fixed angular displacement card
Resolution:	Marked in units of 1° with an angular range of 40° port and 40° starboard
Illumination:	Red tint; dimmable
MTBF:	30,000 hours

ENVIRONMENTAL	
IEC 60945 Equipment Category:	Protected Area
Operating temp:	-10°C to +70°C
Humidity:	0% - 95% at 40°C
Vibration:	1.00 Hz - 12.5 Hz ±1.60 mm displacement 12.5 Hz - 25.0 Hz ±0.38 mm 25.0 Hz - 50.0 Hz ±0.10 mm
Compass:	Safe Distance 100 cm

ADDITIONAL	
Supplied:	MD310T Twin Head Unit (x1)
Supplied:	MD310S Single Head Units (x2)
Supplied:	MD96/10 Junction Box (x4)
Supplied:	Panel Mounting Kit (x4)





All dimensions in mm

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