

RUDDER INSTRUMENTATION / RUDDER ANGLE TELEGRAPH SYSTEMS

MD310SS EMERGENCY RUDDER ANGLE TELEGRAPH SYSTEM

SKU: F310501

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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**
- **Twin Head Unit available for dual rudders**
- **Simple and rugged marinised design**
- **Rotary Dimming Control**

OVERVIEW

The MD310SS Rudder Angle Telegraph is an emergency system which derives its power from a safeguarded backup DC power supply. The MD310SS 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.

For vessels equipped with dual rudders, the Dual Rudder System is available (SKU F310502). In this case, one MD310S Single Head Unit is located in each steering compartment and an 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 MD310SS Emergency Rudder Angle Telegraph from Marine Data: Easy to install and simple to maintain.

APPLICATIONS

- The Marine Data 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

MD310TS - Emergency Dual Rudder Angle Telegraph System

MD04UPS – Uninterruptible Power Supply

SPECIFICATIONS

PHYSICAL	
Weight:	1.65 kg (single head unit)
Dimensions:	H 170 mm; W 186 mm; D 135 mm; Fascia 144 x 144 x 6 mm; Dial Ø 118 mm
Mounting:	Bracket or Panel Mounted
Connections:	Captive cable
Construction:	Aluminium alloy enclosure
Finish:	Window Grey (RAL7040) Semi-gloss Powder Coat

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

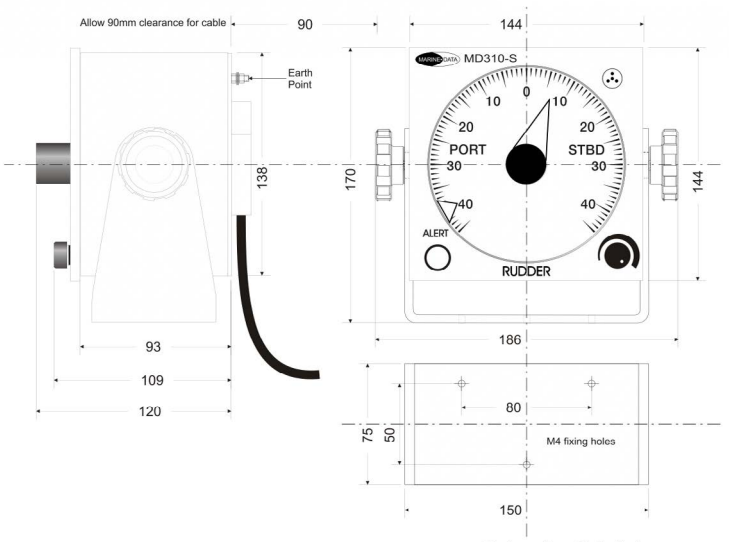
APPROVALS	
Conforms with:	IEC60945

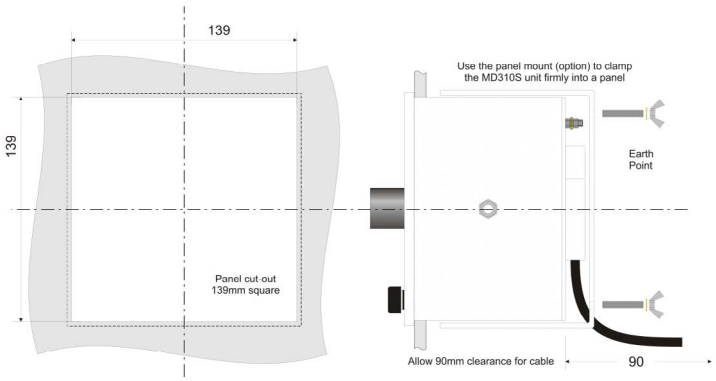
OPERATIONAL	
Performance:	± 2.5° accuracy
Follow-Up Rate:	6° per second
Display:	Moving pointer against a fixed angular displacement card
Resolution:	Marked in units of 1° with an angular range of 40° port and 40° starboard
Illumination:	Red tint; dimmable
MTBF:	30,000 hours

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 12.5 Hz - 25.0 Hz 25.0 Hz - 50.0 Hz	±1.60 mm displacement ±0.38 mm ±0.10 mm
Compass:	Safe Distance 100 cm	

ADDITIONAL	
Supplied:	Panel Mounting Kit (x2)
Supplied:	MD96/10 Junction Box (x2)
Supplied:	MD310S Single Head Units (x2)

All dimensions in mm





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