

RAIS

HLD-RAIS 100



RUDDER ANGLE INDICATION SYSTEM

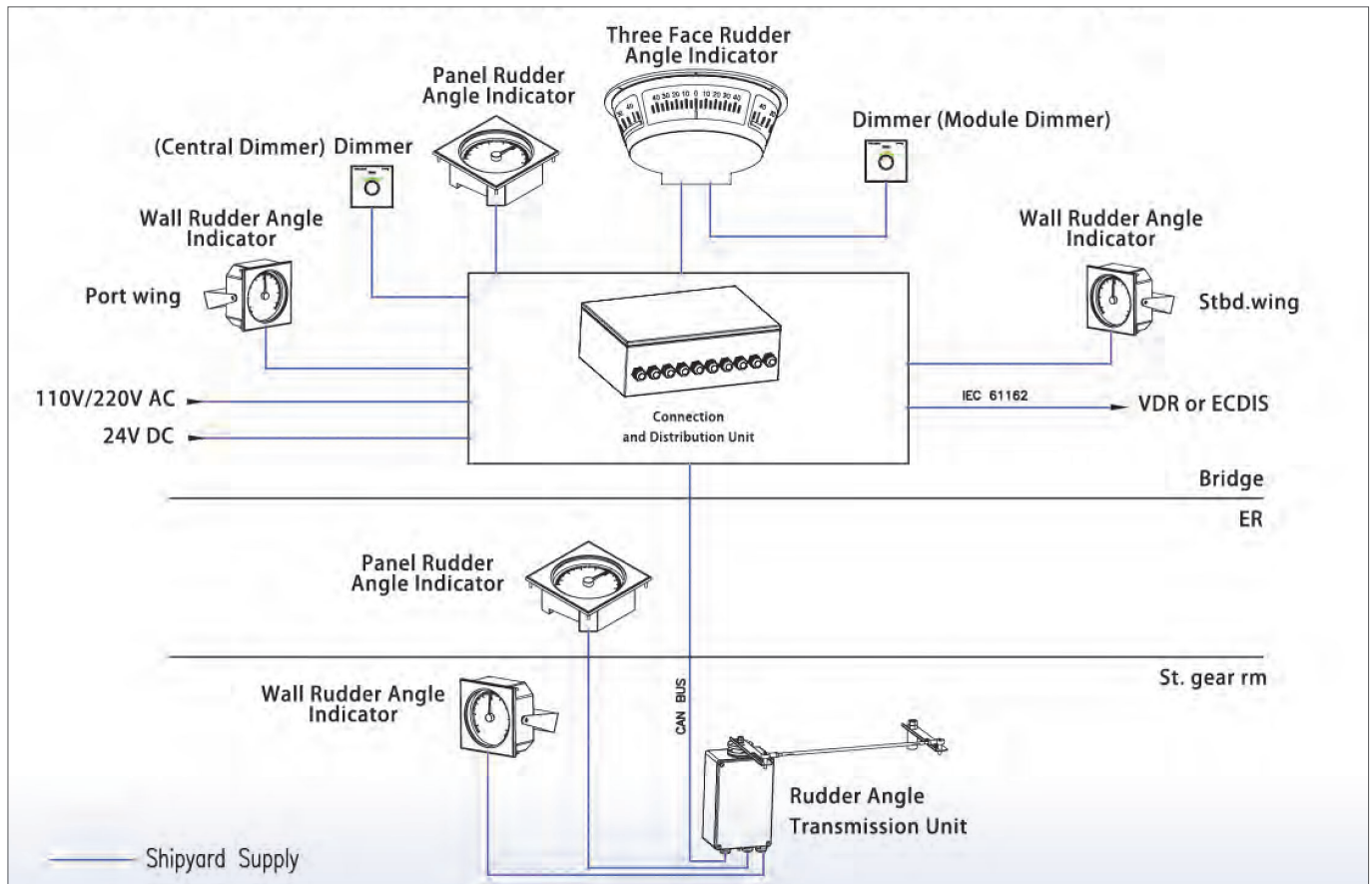
The Rudder Angle Transmitter is mechanically linked and synchronized to the rudder stock to simultaneously transmit the rudder angle information to the connection unit. The connection unit processes the rudder angle value and transmits it to all connection indicators. The transmission is achieved using the latest CAN bus technology that allows self-synchronization of the indicators and ease of calibration of the system. An unlimited number of indicators can be connected to the system. The system also provides outputs in IEC 61162 format for external equipment.

Features

- Fully digital design, Standard IEC 61162 interface between modules for high reliability
- Flexible & scalable configuration, suitable for all types of vessels such as yacht, fishing boat, working boat, bulk and container vessels
- High precision indication, fast response
- Day and Night illumination modes
- Scale markings style can be customized according to requirements
- Built-in dimming, remote dimming and centralized dimming
- Provides rudder position information and system status to VDR or other equipment
- Operates on main power and emergency power with automatic changeover
- Visual alarm indication, Alarm output to external alarm system
- Complies with IMO resolution A.1021

System Configuration

HLD-RAIS 100 Rudder Angle Indication System comprises: Rudder Angle Transmission Unit, Connection and Distribution Unit, Three Face Rudder Angle Indicator, Wall-mounted type Rudder Angle Indicator, Flush-mounting type Rudder Angle Indicator and Dimmer Unit. Standard configuration of the HLD-RAIS 100 rudder angle indication system as shown in the figure.



Technical Specifications

System Specifications

Performance Standards	According to ISO 20673-2007、IMO Resolution A.1021、MSC64 (67)
EMC/EMI	According to IEC 60945 ed4.0 (2002)
Power Supply	110/220VAC, 50/60Hz and 24VDC; Consumption < 30W
Language	English
Interface	8 × Output for Indicators, 2 × IEC 61162 for VDR, etc. 1 × ON/OFF Volt-free Alarm contact for system failure
Scale ranges	±35、±45 or ±65 degrees, Division scale:1 degree
Accuracy	Less than 0.5 degree error
Damping time	<3 seconds

Physical Specifications

Name	Type	Size/mm (L X W X H)	Weight (kg)	Installation	Protection
Rudder Angle Transmission Unit	HLD-RTU100	188x120x80	4	Wall mounting	IP56
Connection and Distribution Unit	HLD-CDU100	340x235x120	8	Flat mounting	IP22
Three Face Rudder Angle Indicator	HLD-TRU100	φ370x115	6	Top mounting	IP22
Rudder Angle Indicator	HLD-WRU100-144	144x144	3	Wall mounting	IP56
	HLD-WRU100-192	192x192	4		
Rudder Angle Indicator	HLD-PRU100-72	72x72	0.5	Flush mounting	IP22
	HLD-PRU100-96	96x96	0.5		
	HLD-PRU100-144	144x144	0.8		
	HLD-PRU100-192	192x192	1		
Dimmer	HLD-DMU100	96x96	0.5	Flush mounting	IP22

Dimensional Drawings

<p>Rudder Angle Transmission Unit HLD-RTU100 4.0kg</p>	<p>Connection and Distribution Unit HLD-CDU100 8.0kg</p>	
<p>Three Face Rudder Angle indicator HLD-TRU100 6.0kg</p>	<p>Dimming Unit HLD-DMU100 0.5kg</p>	
<p>Wall 144 Rudder Angle indicator Unit HLD-WRU100-144 3.0kg</p>	<p>Wall 192 Rudder Angle indicator Unit HLD-WRU100-192 4.0kg</p>	
<p>Panel 96 Rudder Angle indicator Unit HLD-PRU100-96 0.5kg</p>	<p>Panel 144 Rudder Angle Indicator Unit HLD-PRU100-144 0.8kg</p>	<p>Panel 192 Rudder Angle Indicator Unit HLD-PRU100-192 1.0kg</p>



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