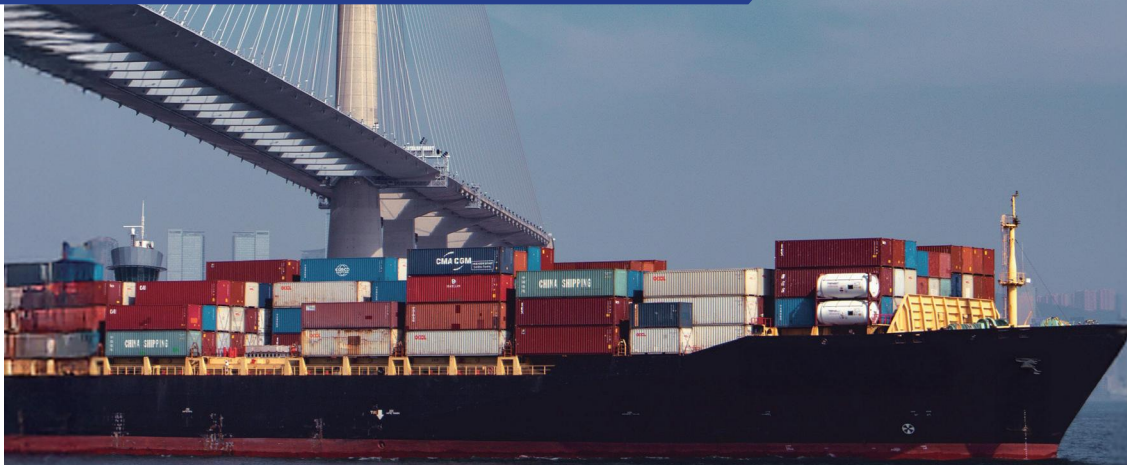


HIGHLANDER

GYRO

HLD-GC 100



GYRO COMPASS

HLD-GC 100 Gyrocompass is the latest product of Highlander for navigation. The gyro compass meets IMO performance standards and other related standards. It has the capability of automatic speed and latitude error correction. The equipment has achieved CCS type approval.

Features

HLD-GC100 meets the following standards

IMO Performance Standards:	A.424(X1);A.694(17), MSC 64(67)
IEC Standards:	IEC 60945I5
ISO Standards:	08728-1997;150728-1997

Features

Fully Digital Design	IEC 61162-1 Interface
High Accuracy:0.25°xsecφ	Automatic Speed and Latitude error correction

Gyrocompass Fast Settling Time

Settling time of the gyro compass can be shortened to 45minutes by setting the gyro compass to the magnetic north at power up.Settling time from cold start is less than 2.5h

High Dynamic Accuracy

Unique anti-vibration and dynamic swing compensation design to achieve high dynamic performance of the compass system.Dynamicaccuracy is 1.0°x secφ.




Scalability

Modular design allows system to be scaled as Compact, Standard and Redundancy System.

Easy installation and maintenance

Physical dimensions of the Master compass are 380 × 310 × 452 mm with a light weight (24 kg), allowing simple and fast installation. Software-based parameter settings (such as A-alignment) offer quick setup. No on-board annual maintenance service is required. Replacing the sensitive element before its MTBF offers convenience to owners.

Technical Specifications

Master Compass Unit				
Master Compass Unit	Dimension(LxWxH):	380x322x454mm	Static accuracy: $\leq 0.25^\circ \times \text{sec } \varphi$	
	Weight (est.) :	27.4kg	Dynamic accuracy: $\leq 1.0^\circ \times \text{sec } \varphi$	
	IP protection:	IP22	Settling point error: $< 0.75^\circ \times \text{sec } \varphi$ S	
	Installation:	Desk Mount	ettling time: < 2.5 hours (from cold start)	
	Power Supply:	DC 24V	Gyro life span: 20,000 h	
	Power Consumption :	<60W		
Master Gyrocompass (Fiber-Optic Gyrocompass) TF601	Dimensions (LxWxH):	270x212x140mm	Specifications:	
	Weight (approx.):	≤ 7.2 kg (standard)	Heading Accuracy: $\leq 0.1^\circ$	
	Supply Voltage:	18-36V (DC)	Heave & Roll Accuracy: $\leq 0.01^\circ$	
	Operating Temperature:	-40 C ~65 C	External Aid: GPS/BDS	
	Storage Temperature:	-50 C ~80 C	Start-up Time: ≤ 5 s	
	Power Consumption:	≤ 20 W	Alignment Time: ≤ 10 min	
Master Gyrocompass (Fiber-Optic Gyrocompass) TF605	Dimensions (LxWxH):	270x212x140mm	Specifications:	
	Weight (approx.):	≤ 7.2 kg (standard)	Heading Accuracy: $\leq 0.5^\circ$	
	Supply Voltage:	18-36V (DC)	Heave & Roll Accuracy: $\leq 0.02^\circ$	
	Operating Temperature:	-40 C ~65 C	External Aid: GPS/BDS	
	Storage Temperature:	-50 C ~80 C	Start-up Time: ≤ 5 s	
	Power Consumption:	≤ 20 W	Alignment Time: ≤ 10 min	
	Material:	Aluminum alloy		

Distribution Unit				
Distribution Unit	Dimension(LxWxH):	425*360*187mm	Outputs:	
	Weight (est.) :	9.2kg	Heading: 8 × IEC 61162-1 @ 1/10/50 Hz	
	IP protection:	IP22	Heading: 8 × digital repeater	
	Installation:	Flush Mount	Alarm: 4 × volt-free contacts	
	Power Supply:	DC 24V	Inputs:	
	Power Consumption :	<10W	Alarm: 4 × volt-free contacts	
			Position: GPS / DGPS	
			Heading source: Gyro, magnetic compass serial heading source, or magnetic compass serial input; auto baud rate	
Operation Unit				
Operation Unit	Dimension(LxWxH):	96*193*54mm	Functions:	
	Weight (est.) :	2.74kg	Heading Sensor Management	
	IP protection:	IP22	Audio and Visual Alarm	
	Installation:	Flush Mount	Dimmer Control	
	Power Supply:	DC24V	CAN bus communication hub	
	Power Consumption :	<5W		
Power Supply Unit				
Power Supply Unit	Dimension(LxWxH):	330*220*120mm	Features:	
	Weight (est.) :	4.2kg	Automatic changeover between AC and DC	
	IP protection:	IP22	Galvanic Isolated Outputs	
	Installation:	Wall Mount	Volt-free failure alarm contact	
	Power Supply:	AC110/220V, DC		
	Power Consumption :	24VDC,300W		
Course Printer				
Course Printer	Dimension(LxWxH):	390x325x115mm	Interface:	
	Weight (est.) :	10kg	RS232 serial	
	IP protection:	IP22		
	Installation:	Desk mounting		
	Power Supply:	AC220V		
	Power Consumption :	<25W		
Steering Gear Room Compass Repeater				
Steering Gear Room Compass Repeater	Dimension(LxWxH):	222*222*58mm	Features:	
	Weight (est.) :	2.8kg	Accuracy: ± 0.1°	
	IP protection:	IP44	Analogue Compass Card and Digital Display	
	Installation:	Bulkhead mounting	Selectable baud rate	
	Power Supply:	DC 24V	IEC 61162-1 interface	
	Power Consumption :	<6W	Manual Alignment	
			Dimmer Control	
Bearing Compass Repeater				
Bearing Compass Repeater	Dimension(LxWxH):	Φ245x180(H)	Features:	
	Weight (est.) :	10.5kg	Accuracy: ± 0.1°	
	IP protection:	IP56	Analogue Compass Card and Digital Display	
	Installation:	flush, bulkhead or Desk mount	Selectable baud rate	
	Power Supply:	DC 24V	IEC 61162-1 interface	
	Power Consumption :	<6W	Manual Alignment	
			Dimmer Control	
			Optional BearingSight Device	
Steering Compass Repeater				
Steering Compass Repeater	Dimension(LxWxH):	222x222x57mm	Features:	
	Weight (est.) :	3kg	Accuracy: ± 0.1°	
	IP protection:	IP22	360° and 10° Analogue Compass Card	
	Installation:	Flush mount	Selectable baud rate	
	Power Supply:	DC 24V	IEC 61162-1 interface	
	Power Consumption :	<10W	Manual Alignment	
			Dimmer Control	

LCD Displayer

LCD Displayer

Dimension(LxWxH): 144x144x49mm
 Weight (est.) : 1kg
 IP protection: IP22
 Installation: Flush/Wall/Desk mount
 Power Supply: DC 24V
 Power Consumption : <5W

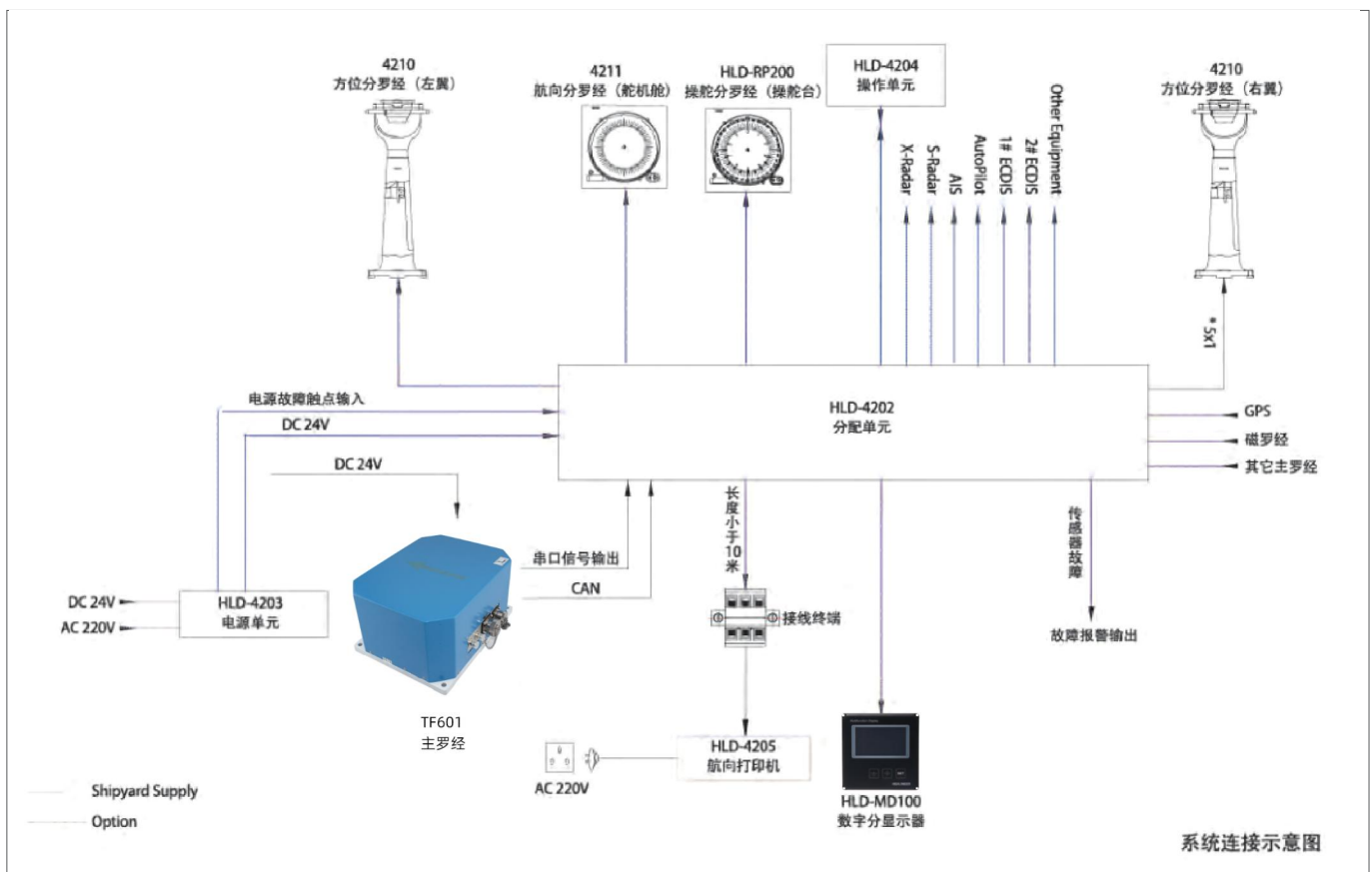
Features:
 Accuracy: +0.1°error
 Digital Display
 Selectable baud rate
 IEC 61162-1 interface
 Tendency indication



configuration

Application

Standard configuration		Optional			
Master Compass	4201	Course Printer	4205	Multi LCD Display	HLD-MD100
Distribution Unit	4202	Bearing Compass Repeater	4210	Signal distributor(1-16/2-8)	HID-DU220
Operation Unit	4204	Steering Gear Room Compass Repeater	4211	ROT Indicator	HLD-ROT 100
Power Supply Unit	4203	Steering Compass Repeater	HLD-RP200		



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