



HM-2812

Marine Smart Instrumentation Display (SID)

The Marine Smart Instrumentation Display is an intelligent, easy-to-install and user-friendly digital instrument. It supports multi-screen linkage, free combination and data expansion. The high-definition display adapts to various light conditions, presenting details clearly. Equipped with a quick-operation keyboard, it allows for fast mode switching and brightness adjustment. Compatible with various sensors, the product helps crew quickly perceive navigation status and the surrounding environment. Built-in a high-performance information processor, it features powerful computing and rapid data processing capabilities, displaying real-time data from various sensors. As an indispensable intelligent auxiliary tool for navigation, The Marine Smart Instrumentation Display delivers reliable support for maritime operations.



Data Expansion

Provides customized services, enabling the expansion and access of user-required data, and allowing users to freely combine data as needed.



Multi-screen Linkage

Supports multi-screen linkage, enabling one-key adjustment of the brightness and display mode of all screens.



Rich Interfaces

The data distributor is equipped with multiple NMEA0183 interfaces, NMEA2000 interfaces, and AD signal interfaces.



High-Definition

The high-definition display screen presents clear and delicate images, adapting to display under different light conditions.



Real-time Data

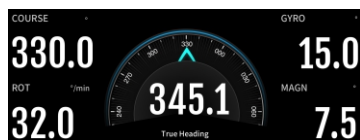
Built-in high-performance information processor, enabling high-speed data reception and processing.



Comprehensive Perception

Compatible with various sensors, such as positioning, water depth, and meteorological sensors, providing accurate status information.

HIGHLIGHT FUNCTION



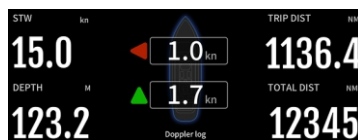
Vessel Attitude

The roll angle and pitch angle can be clearly displayed, helping crew members understand the vessel's attitude and contributing to the vessel's stable navigation.



Meteorological Information

Displays anemometer data, such as wind direction, wind speed, and wind angle. It shows real-time meteorological information, helping operators understand the surrounding airflow conditions and enhancing the safety and stability of driving or operation.



Speed Monitoring

Connects to the Doppler Velocity Log, displays the vessel's speed relative to water and voyage data, provides accurate speed, position and heading information for the ship, and improves navigation safety.



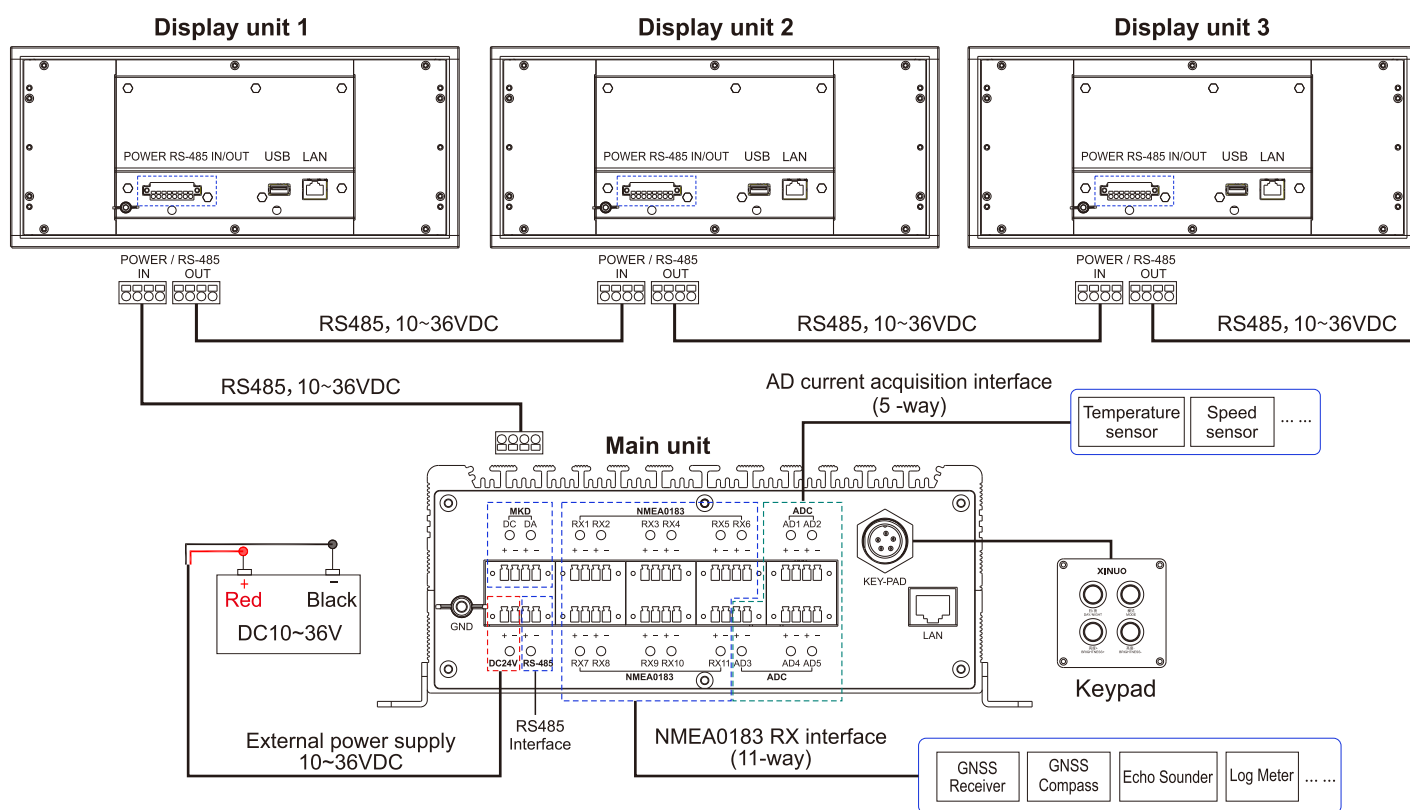
Real-time Rudder Control

Presents real-time rudder angle information, intuitively reflecting the ship's current steering angle. It helps pilots accurately grasp the rudder blade deflection status, thereby controlling the course more precisely and effectively improving navigation safety and operational efficiency.

HARDWARE CONFIGURATION

System connection diagram

★ Maximum connect 8 display units



Display unit

Display size	320mm*144mm
Display resolution	1920*720, Single screen 12.3 inches
Brightness	800cd/m ² (MAX)
Interface	USB, RS485, LAN
Power supply	DC 10-36V
Main unit	
Interface	2-way RS485, 11-way NMEA0183, 5-way AD analog quantity;(4-20mA)
Analyse the sentence	HDT, ZDA, GGA, Vtg, MWV, VBW, VLW, DPT, ROT, RSA, HRM, HPM, ... (Support customization)
LAN interface	100M
Consumption power	1 Display unit+1 Main unit, Overall power consumption: 15.6W@24VDC, Average power consumption: 20W@24VDC 4 Display unit+1 Main unit, Overall power consumption: 58.8W@24VDC, Average power consumption: 60W@24VDC
Standards	IEC-60945, IEC-61162-1, IEC-61162-2
Keypad	
Communication	USB

Installation dimension diagram

