

辅车钟产品说明书

Auxiliary Telegraph Product Instruction



辅车钟采用微处理器 MCU 控制技术设计，产品面板为 PVC 贴面技术，具有结构体积小巧、安装方便、美观、性能可靠等优点。符合 CCS 及国外船级社自动化的相关规定，主要用于主机遥控系统的通讯联络。

Auxiliary telegraph is designed by introducing microprocessor MCU control technique, product's panel is covered by PVC. Having merits as small, convenient for installation and use, esthetic appearance and reliable performance etc. Satisfying relevant automation requirements of CCS and abroad classification society. It is mainly used for communication for main engine remote control system.

一、主要电气参数

Main electric parameter

- 1、工作电压：DC24V（±20%-30%） 1A；
Operating voltage: DC24V（±20%-30%） 1A；
- 2、通讯方式：RS485 串行通讯
Communication mode: RS 485 serial communications
- 2、工作环境：-10℃～+55℃；
Ambient condition: -10 ℃+55 ℃；
- 3、相对湿度：≤RH95%(+40℃)；
Relative humidity: ≤RH 95% (+40℃)；
- 4、电磁兼容性能：设备中有严密的抗干扰措施，满足相关规范要求；
Electromagnetic compatibility: Contains rigorous anti-jamming measures and meet relative requirements.
- 5、设备具有防振及防潮湿、防盐雾、防霉菌的措施；
Equipments has measures as anti-vibration moisture proof, salt mist proof and anti-fungus.
- 6、报警输出类型：无源触点；
Type of alarm output: dry contact；
- 7、触点最大容量： DC36V/1A；
Maximum capacity of contact: DC 36V/1A；
- 8、防护等级：IP22
Protection degree: IP22

二、主要功能及用途

Main functions and application

主要用于主机遥控系统的通讯联络

Mainly used for communication for main engine remote control system.

三、系统组成

System's composition

该系统由发讯器和收讯器组成；

This system is composed of transmitter and receiver；

操作面板有以下几部分组成：

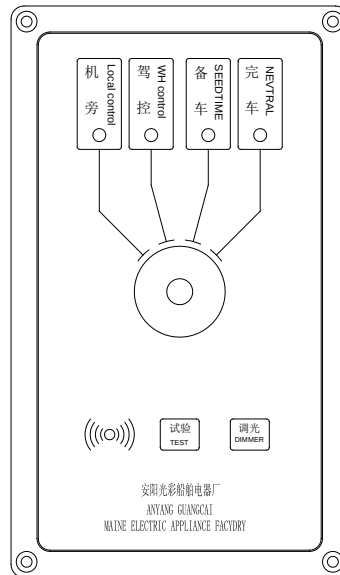
Operation panel contains the following parts:

- 1、联络开关
Interconnection switch
- 2、状态指示灯
State indicating lamp
- 3、试验；
Test
- 4、调光；

- Dimmer
5、蜂鸣器
Buzzer

四、面板示意图

Panel's schematic diagram



五、操作说明

Operation instruction

- 1 调光： 用于调节显示面板的亮度
Dimmer: used for adjusting the brightness of display panel.
- 2、选择开关： 用于选择联络通讯内容.当发讯器和收讯器指令不同步时指示灯闪烁蜂鸣器报警，只有对方回令后，指示灯变平光，声响信号消失。
Selector switch: used for selecting what is to be communicated. Indicating lamp will flash and buzzer will alarm when the commands of transmitter and receiver are asynchronous, only after the opposing side answers the command, indicating lamp turns to continuous light and audible signal vanishes.
- 3 实验： 用于测试面板指示灯及蜂鸣器的好坏
Test: used for testing indicating lamps and buzzers on the panel.

七、外部端子图

Exterior terminal diagram

通讯		通讯（备用）		电源					
A	B	1A	1B	空	空	空	空	+24V	GND
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
K1-1	K1-2	K2-1	K2-2	K3-1	K3-2	K4-1	K4-2	K5-1	K5-2
无源点		无源点		无源点		无源点		音响报警无源延伸	

八、外形及开孔尺寸图

Outline and cutout dimensional drawing

