

雾笛控制器产品说明书

Fog Horn Controller Product Instruction



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一、概述

General

GCWD-2 型雾笛控制器,可控制船舶汽笛(汽笛需用户根据船型自配)在航行时自动发出周期性的讯号,也可手动发讯号。GWD-2 型雾笛控制器符合 CCS 有关规范要求,适用于各类船舶,可与各厂家、各类型的气笛配套使用。

GCWD-2 type fog horn controller, may control marine whistle (whistle need be deployed by user according to hull form) to automatically send out seasonal signal when navigation, also may manually send out signal.

采用微处理器 MPU 控制技术设计,产品面板为 PVC 贴面,触摸式按键,具有结构小巧、安装使用方便、美观、性能可靠等优点。

It adopts microprocessor MPU control technique for design, product panel is PVC overlay, touch key, and possessing advantages as small, convenient for installation and use, beauty, reliable performance etc.

二、主要功能及特点

Main Function And Characteristic

1、自动雾笛时序

Time sequence of automatic fog horn

每2分钟一长三短;

1 long 3 short each two minutes ;

每2分钟一长两短;

1 long 2 short each two minutes ;

每2分钟一长一短

1 long 1 short each two minutes ;

每2分钟一长;

1 long each two minutes ;

每1分钟三短;

3 short each one minute ;

每1分钟一短一长一短;

1 short 1 long 1 short each one minute ;

2、手动鸣笛

Manual whistle

按轻触键“手动”按钮,雾笛控制器自动转为“手动”并按“手动”的节奏发送讯号。按“停止”或“手动”轻触键,再按左右舷控制按钮(外接)可手动控制。

Press touch key "Manual" button, fog horn controller will automatically change to "Manual" and sent out signal according to rhythm of "Manual". Press "stop" or "Manual " touch key, press port & starboard control button (external) may change to manual control.

3、外控输入

Outside control input

可外接手动按钮或来自通用报警触点。

May externally connect with Manual button or from general service alarm contact.

4、控制输出

Control output

接雾灯;

Connect with fog light;

接气笛电磁阀(直流220V);

Connect with whistle solenoid valve (DC220V);

接电加热(AC220V);

Connect with electric heating (AC220V);

5、可按“调光”轻触键调节指示灯亮度，具有断电自动记忆功能。

Press "dimmer" touch key to adjust brightness of indicating lamp, possessing power breakdown automatically memory function.

三、技术规格**Technical Specification**

1、供电电源: AC220V±20%;

Power Supply: AC220V±20%;

2、电磁阀(直流220V)≤100W;

Solenoid Valve (DC220V) ≤100W;

3、雾灯功率≤100W;

Fog light power≤100W;

4、电加热控制端功率≤200W;

Electric heating control terminal power≤200W;

5、环境温度: -10℃~+50℃

Ambient Temperature: -10℃~+50℃

6、相对湿度: ≤RH95%(+40℃)

Relative Humidity: ≤RH95%(+40℃)

7、有很好的电磁兼容性，微机技术中有严密的抗干扰措施;

Possessing good Electro Magnetic Compatibility, microprocessor technique contains rigorous anti-interference measure;

8、防护等级: IP22

Protection Grade: IP22

该产品符合国际电工委员会IEC-92-230标准及我国现行钢质海船入级建筑规范，满足国际海上人命安全公约（SOLAS）。

The product conforms with standard of IEC-92-230 and Chinese Current Steel Ship Classification Building Rules, satisfies international convention for safety of life at sea (SOLAS).

四、设备组成**Equipment Composition**

雾笛控制系统由GCWD-2型雾笛控制器（双笛、单笛）和一块I/O模块组成。

Fog horn control system is composed by GWD-2 type fog horn controller (twin whistle, single whistle) and a piece of I/O module.

GCWD-2型雾笛控制器为嵌入式安装结构。面板上设有电源指示、雾笛及雾灯工作指示及其调光按钮，加热、试灯、自动和手动按钮以及自动鸣叫选择开关。工作方式分为手动和自动两种，可根据需要选择1号和2号雾笛分别工作或同时工作。I/O模块分为接口模块和控制模块两部分。所有输入和输出的信号均直接接在GCWD接口模块的端子排上。其中，输入信号为电源（AC220V或DC24V）、外接手动按钮触点信号；输出的信号为1号雾笛触点信号、2号雾笛触点信号、加热器触点信号和雾灯触点信号。

GCWD-2 type fog horn controller is flush-type mounting frame. On the panel there are power supply indication, fog horn, fog light working indicating and dimmer button, heating, test lamp, automatic and manual button and automatic tweet selector switch. Working mode is divided into manual and automatic, may select NO.1 or NO.2 fog horn separately work or simultaneously work according to need. I/O module is divided into interface module and control module two parts. All import and output signals are on terminal row of GC - WD interface module. Among which, input signal is power supply (AC220V or DC24V), externally connect manual push-button contact signal; output signal is NO.1 fog horn contact signal, NO.2 fog horn contact signal, heater contact signal and fog light contact signal.

五、安装注意事项

Matters Need Attention on Installation

- 1、GCWD-2外接电缆可采用CEF80型，截面积大于1mm²。

GCWD-2 external connection cable may adopt CEF80 type, sectional area is more than 1mm².

- 2、GCWD-2在出厂时雾笛电磁阀是按DC220V设计的，船厂在安装接线时应核对是否与之相符，否则毁损电磁阀的线圈。如果电磁阀参数与此不符，请在订货时声明，我公司将提供无缘触点。

Solenoid valve of GCWD-2 fog horn is designed based on DC220V, shipyard should check whether coincide with it when install connection, or solenoid valve coils will be derogated. If parameter of solenoid valve doesn't coincide with it, please declare at the time of order, we will provide dry contact.

- 3、汽笛加热器输出为AC220V功率小于或等于200W，在接线时应仔细核对实际加热器参数是否与之相符。

Whistle heater output is AC220V ,power is less than or equal to 200W, at the time of connection, should carefully check whether actual heater parameter coincides with it.

- 4、在使用中如果发现电源指示灯不亮或整个控制器不工作，请检查控制器保险丝是否熔断，在确认外部没有短路的情况下更换保险丝，使用中不得随意加大保险丝容量否则将损坏控制器。

If found power light doesn't flash or whole controller doesn't work, please check whether the fuse of controller blowout, change the fuse under the condition that affirm there is no short circuit, the capacity of fuse can't be increased at discretion in use, or will spoil the controller.

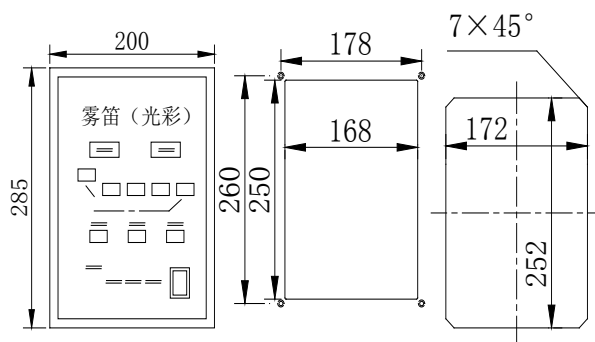
另外附有外接线图、面板图、安装尺寸。

Otherwise accompanied with external wiring diagram, panel drawing, installation dimension.



GCWD-2型雾笛控制器外部接线图

GCWD-2 type fog horn controller external wiring diagram



外形及开孔尺寸图:
Outline and perforation dimension drawing