

GCWD-2

FOG HORN CONTROLLER PRODUCT INSTRUCTION



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GCWD-2 Fog Horn Controller Production INSTRUCTION

A. General

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.

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.

B. Main Function And Characteristic

1. Time sequence of automatic fog horn
 - 1 long 3 short each two minutes ;
 - 1 long 2 short each two minutes ;
 - 1 long 1 short each two minutes ;
 - 1 long each two minutes ;
 - 3 short each one minute ;
 - 1 short 1 long 1 short each one minute ;

2. Manual whistle

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. Outside control input

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

4. Control output

- Connect with fog light;
- Connect with whistle solenoid valve (DC220V);
- Connect with electric heating (AC220V);

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

C. Technical Specification

1. Power Supply: AC220V \pm 20%;
2. Solenoid Valve(DC220V) \leq 100W;
3. Fog light power \leq 100W;
4. Electric heating control terminal power \leq 200W;
5. Ambient Temperature: -10 $^{\circ}$ C~+50 $^{\circ}$ C
6. Relative Humidity: \leq RH95%(+40 $^{\circ}$ C)

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

8. Protection Grade: IP22

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).

D. Equipment Composition

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 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.

E. Matters Need Attention About Installation

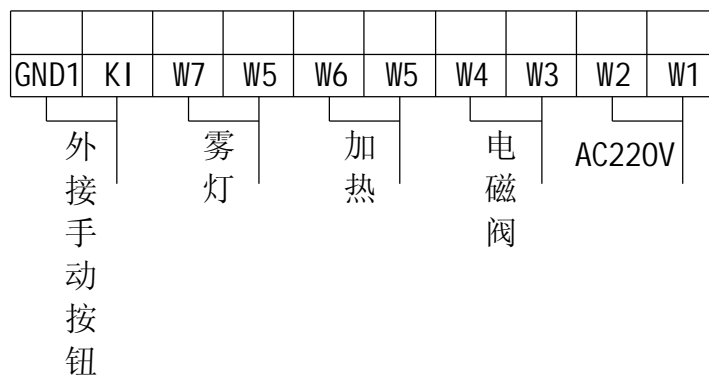
1. GCWD-2 external connection cable may adopt CEF80 type, sectional area is more than 1mm².

2. 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.

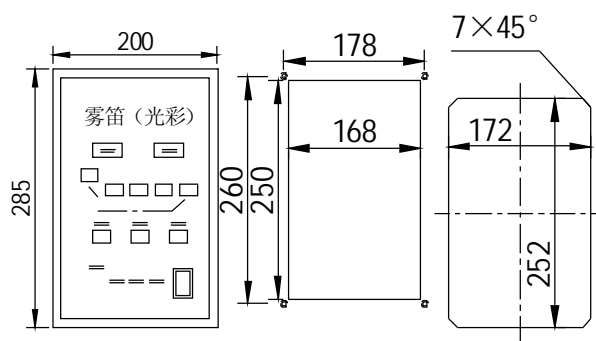
3. Whistle heater output is AC220V ,power is less than or equal to 200W, at the time of connection, should carefully check whether actual heater parameter coincides with it.

4. 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.

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



GCWD-2 type fog horn controller external wiring diagram



Outline and perforation dimension drawing

These documentations are compiled by technical department of Henan Guangcai Co.,Ltd

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