DI-9305E
Digital Single Riser Output Module

Features

- ✧ Cable checking for output cables input audio cables or 24V input cables.
- ✧ Occupying one address. It can be modified in filed.
- ✧ Output port utilizes AD sampling technology for precise testing.
- ✧ DIN-Rail mounted or Wall mounted.
- ✧ Standard: EN 54-18:2005

Description

With a microprocessor, DI-9305E Digital Single Riser Output Module (the module) can communicate with a FACP. The module is designed to connect with 70V/100V input audio signal cables or 24VDC input cable, featuring of checking states of input or output ports. Checking method can be set.

Connection and Cabling

Fig. 1 shows terminals on the module.

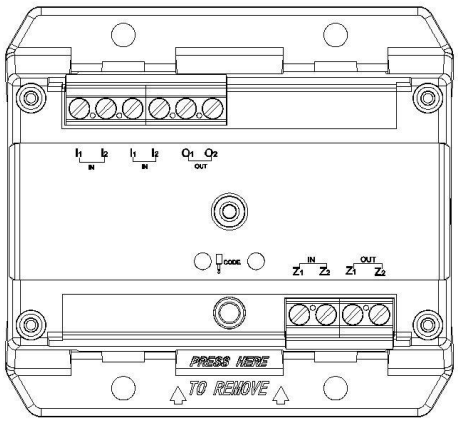

Fig. 1

(Z1, Z2) IN & OUT: Connecting with Signaling Line Circuit (SLC) loop of FACP, polarity-insensitive.

O1, O2: Output terminals

(I1, I2) IN & OUT: Power input terminals. For connecting with 24V signal terminals or 70V/100V audio signal terminals (Note: there is 50kΩ resistance between I1 and I2).

CODE: connecting with P-9910B programmer.

Recommended Wiring

1.0mm^2 or above fire cable for all terminals, and subject to local codes.

Installation

Warning:

Before installing the module, disconnect power from the loop and verify that the guide rail is securely installed.

2831-CPR-F2022
GST-0018-01

18

548m/06

1) Before installation, make sure the enclosure is in good condition and markings are complete.
2) The module can be mounted on a 35mm DIN-Rail as shown on Fig. 2.
3) The module can also be wall mounted by 4 mounting screws as shown in Fig. 3.Mouting space is 67mm x 40.5mm.

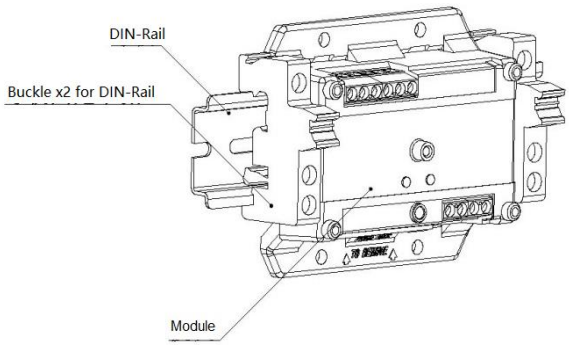

Fig. 2

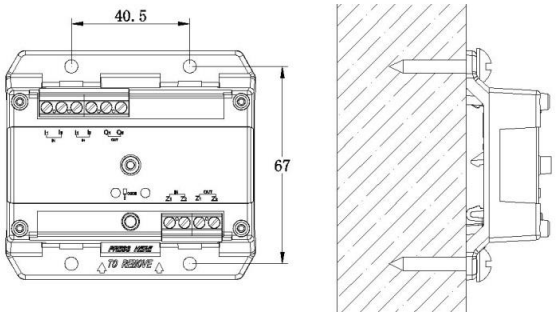

Fig. 3

Application

Connect terminals of I1/I2 with O1/O2. The address can be programmed in field through a P-9910B Hand Held Programmer.

Programming Parameters:

In standby state of the programmer, Inputting “456” and then pressing “Clear” can unlock the programmer, pressing *Fn* and then number 3, “—” (data waiting for programming) will be popped up on the screen. Writing a parameter and then pressing “*Program*”, a “P” will show on the screen meaning the parameter is programmed.

Operation of *Fn* and *4* can be done as the same as

Fn and 3.

Press Fn and then number 3, input checking methods can be set.

1	No checking
others	Checking

Pressing *Fn* and then number *4*, output checking methods can be set.

1	No checking
others (Default)	Checking

The relationship between the output port resistance and the product state is shown in the following table:

O1/O2 port resistance	Output state
< 7.5 kΩ	Fault
> 100kΩ	Fault
other	Normal

The relationship between the input port voltage and the product state is shown in the following table:

Input port voltage	Input state
<18 V	Fault
>19 V	Normal

The system connection for applying input audio signals is shown in Fig. 3.

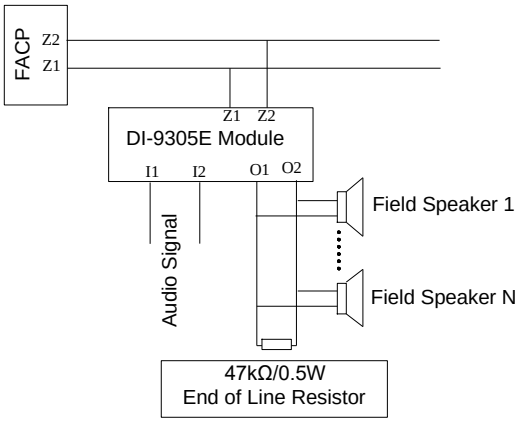

Fig. 3

The system connection for applying 24VDC is shown in Fig. 4.

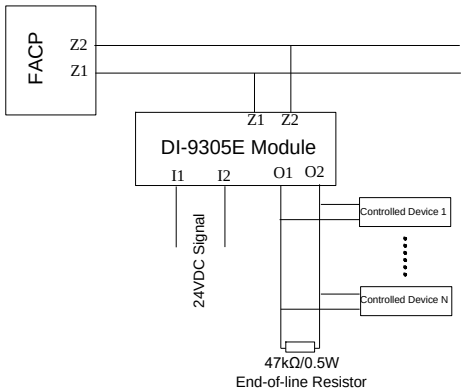

Fig. 4

Specification

Operating Voltage	Loop: 24VDC (16VDC - 28VDC)
Standby Current	Loop≤ 0.26mA
Action Current	Loop≤ 0.5mA
Maximum Output Load	2A@30VDC Maxi capacity of 60W for 70V audio input; Maxi capacity of 60W for 100V audio input.
Relay Output	Volt-free contact
Programming Method	Electrically addressed, one address within 1 - 242.
Active LED	Illuminates red when the relay is activated, turns off as loop power cuts down and flashes in other states.
Fault LED	Illuminates yellow when input fault occurs and flashes 0.5s on and 0.5s off when output fault occurs. The LED is quiet in other states.
Ingress Protection Rating	IP30
Operating Temperature	-10°C - +55°C
Relative Humidity	≤ 95%, non-condensing
Compatible DIN-Rail	35mm DIN-Rails
Material and Color of Enclosure	ABS, white (RAL 9016)
Dimension (L×W×H)	85.3mm×78mm×33mm
Weight	About 66.6g

Accessories and Tools

Model	Name	Remark
P-9910B	Hand Held Programmer	Order separately
RJ-0.5W-47kΩ±1%	Resistor	Provided

Limited Warranty

GST warrants that the product will be free of charge for repairing or replacing from defects in design, materials and workmanship during the warranty period. This warranty shall not apply to any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.

Product warnings and disclaimers

THESE PRODUCTS ARE INTENDED FOR SALE TO, AND INSTALLATION BY, AN EXPERIENCED SECURITY PROFESSIONAL. UTC FIRE & SECURITY CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS

PRODUCTS, INCLUDING ANY “AUTHORIZED DEALER”, IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL SECURITY RELATED PRODUCTS.

For more information on warranty disclaimers and product safety information, please check https://firesecurityproducts.com/policy/product-warning/ or scan the following code:

This Data Sheet is subject to change without notice. Please contact GST for more information or questions.

Gulf Security Technology Co., Ltd.

No. 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei, P. R. China 066004

Tel: +86 (0) 335 8502434 Fax: +86 (0) 335 8502532

service.gst@fs.utc.com www.gst.com.cn