

Parameters

Electrical Parameters:

Working voltage	DC15-30V
Static power consumption	30mA/DC24V
Dynamic power consumption	80mA/DC24V
Output (Relay)	10A/CH
Output (signal)	0-10VDC / 4mA-20mA
Input	Dry contact
	Voltage(0-10000mV)
	Analogy Voltage (0-10000mV)
	Current (4000-20000µA)
Communication	Analogy current (4000-20000µA)
	PieroNet

Environmental Conditions:

Working temperature	-5°-45°C
Working relative humidity	Up to 90%
Storage temperature	-20°-+60°C
Storage relative humidity	Up to 93%

Approved:

CE, RoHS

Product Information:

Dimensions	144×90×66mm
Net weight	375g
Housing material	Nylon
Installation	35mm Din rail installation
Protection rating	IP20

PieroNet Cable Guide

CAT5/CAT5E	PieroNet
Brown / Orange	24V DC
Brown white / Orange white	COM
Blue white / Green white	DATA-
Blue / Green	DATA+

Important Notes

- During the analogy function setting (such as, temperature, luminance, humidity, pressure), the measurement resolution can not be set too low, or it will affect the accuracy of the measurement conversion. The higher measurement resolution is set (There are more points in the direction of the X axis), the more accurate measurement result will be acquired.
- Taking temperature measurement as an example:
- Connect a sensor with measurement range from 0°C to 100°C, when the curve is only set 10 points with 10°C for an interval, the deviation is as large as 10°C.
- So it is recommended to set: The curve is set 1000 points with 0.1°C for an interval, then the deviation is as small as 0.1°C.

Overview



The COMBO-1 6 channels input & output module, supports different kinds of output and input signal, it also has 6ch relay outputs.

Functions

- Supports input types: Dry contact, Voltage(0-10000mV), Analogy Voltage(0-10000mV, Current (4000-20000µA), Analogy current(4000-20000µA)
- Analogy function: it can convert the value of voltage and current conversion into other types, such as temperature, luminance, humidity, pressure.
- The input channel can be set as a mechanical switch and an electronic switch.
- Each input channel can be set 20 targets.
- Out 1 to out 6 are 10A relay outputs. Out 7 and out 8 are optional, can set 0-10V output or 4mA-20mA output.
- For inputs and outputs, each channel can be set separately
- It supports online upgrading via PieroNet software.
- It supports easy programming.

Important Notes

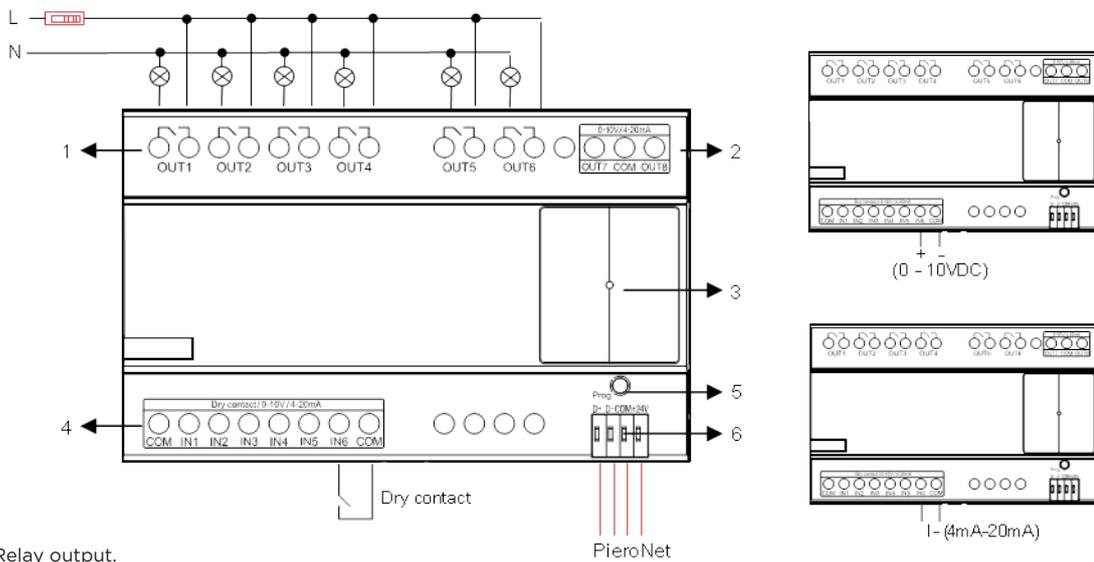
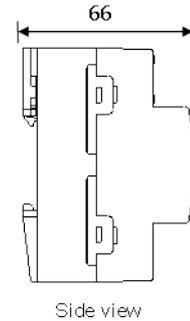
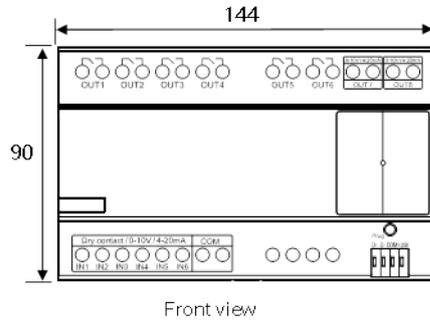
- 35mm Din rail installation, inside DB Box.
- PieroNet bus - CAT5E or PieroNet cable, 0.8mm single-core copper cable.
- Mark up each channel.
- Connect to the load and PieroNet, check all output connection.
- PieroNet connection - Hand-in-hand.
- Make up each output connection cable, separate high power and PieroNet cable.
- Recommended load type and power

Motors: 1H(1HP=746W)	
Incandescent lamp load:	1600W
Inductive transformer:	1000W
Electronic transformer:	800W
Halogen lamp 230 V	1600W
Mercury-vapour lamp	
* Uncompensated luminaire:	1000W
* Parallel compensated:	800W
Fluorescent lamp T5 / T8	
* Uncompensated luminaire:	1000W
* Parallel compensated:	800W
* DUO lamp:	800W
Dulux lamp	
* Uncompensated luminaire:	1000W
* Parallel compensated:	800W

Installation Steps

- 35mm Din rail installation, inside DB Box.
- Connect the load and PieroNet cable.
- Check the connection, avoid any mistakes.
- Check outputs, ensure the LED is connected correctly.
- Tidy up all cables.

Dimensions and Wiring



1. Out 1-6: Relay output.
2. Out 7, 8: out 0-10VDC or 4mA-20m
3. Indicator: flickers when the module is working properly.
4. Input: Dry contact, 0-10VDC or 4mA-20m
5. Programming button: Keep pressing for 3 seconds, can read and modify the address of the module via the PieroNet software.
6. PieroNet: from left to right: Data+, Data-, COM, DC24V

Note: take input 6 as an example, make the input signal are dry contact, 0-10VDC,4-20mA.

Safety Precautions



- The screw down torque should not exceed 0.4Nm.
- The current of each relay output channel should not exceed 10A.
- Do not make wrong connection on PieroNet interface, it will damage the PieroNet interface of this module.
- Do not connect AC power to the PieroNet interface.
- Do not let the module come into contact with liquids or corrosive gases.
- Ensure good ventilation.

Package Contents

- COMBO-1, Datasheet x1, PieroNet terminal x1, Label Paper x5

