

EPL-FCU4 - 4 Unit Fan-Coil Multiplexer

Key to Professional MClimate de Cuonlre

EPL-FCU4
User Manual · V1.0
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SAFETY WARNINGS

Read this user manual carefully before operating the device. Follow the installation, electrical connection and commissioning sections step by step. Thereafter the owner/user must keep this manual in a known and visible place for the service life of the product.

-  Use the product inside a panel only and within the stated environmental conditions.
-  The operating voltage of the product is stated on its label. Do not supply the product from any source outside this value.
-  Do not touch the supply terminals of the product with bare hands.
-  All service and repair work may be carried out only by Energyplus technical service. No other person should intervene in the product.
-  Ensure that the system is properly earthed so that the product operates correctly.
-  Store the product in a dry environment; otherwise a fault may occur.

Use of the product contrary to the conditions stated above may cause fire, serious personal injury, or damage to the product or to the structure in which it is installed. Energyplus Teknoloji accepts no liability for such situations caused by the user.

SYMBOLS

SYMBOL DESCRIPTIONS



Used for important points in the following sections.



Used for warnings relating to voltage.



Indicates that the supply voltage of the product is DC.



Indicates that the product complies with the relevant EU directives.



The product must not be treated as normal household waste; it must be handed over to a collection point for the recycling of electronic equipment.

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1. DESCRIPTION

In modern buildings, fan-coil units are the core elements of climate control systems. The EPLFCU4 multiplexer board enables you to control up to four fan-coil units within the same zone using a single thermostat. Designed and manufactured in Turkey with premium quality components, this smart and economical solution increases efficiency and reduces operational costs.

Key Features

- Control 4 fan-coil units via a single thermostat room control panel.
- 3-speed fan operation supported.
- Compatible with both 2-pipe and 4-pipe fan-coil systems
- Separate terminals for each fan-coil unit.
- Easy box / Ray mounting.
- Plug-in terminals for simplified and error-free wiring.
- Compatible with all 220VAC thermostats and room controllers
- Point dynamic test and self-locking function for each speed level.
- Mechanical indicator window.

1.1 Package Contents

- 1x Coil Multiplexer Card
- 4x Screw
- 4x plug
- 2x Cable Grommet
- 1x Plug-in terminal set

* For special orders, package contents may vary depending on the project or customer request.



Figure 1.1

2. TECHNICAL SPECIFICATIONS

ELECTRICAL PARAMETERS

Power Supply:	220 VAC ±15% / 50-60 Hz
Power Consumption:	1250 VA / 150W

ENVIRONMENTAL CONDITIONS

Temperature & Humidity	Temperature Range: -40 °C to +70 °C Humidity Range: 5% to 98% RH, + 40 °C (non-condensing)
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3. PRODUCT COMPONENTS

INDICATORS AND CONNECTION ELEMENTS

Power Input.

Thermostat Input.

Fan Output:

Cooling Line Output:

Heating Line Output:

Control four fan-coil units.

powers four devices.

powers four devices.



Figure 3.1

4. WIRING DIAGRAM

Terminal layout: Terminal layout: Power, Termostat, Cooling, Heating, Fan_1, Fan_2, Fan_3, Fan_4.

TERMINAL CONNECTIONS

Power Input:

Termostat Input:

Cooling Valves Output

Heating Valves Output:

Fan Output x 4:

Line, Neutral, MP

TS_1, TS_2, TS_3, HEAT_I, COOL_I

O_1, O_2, O_3, O_4

O_1, O_2, O_3, O_4

Speed1, Speed2, Speed3

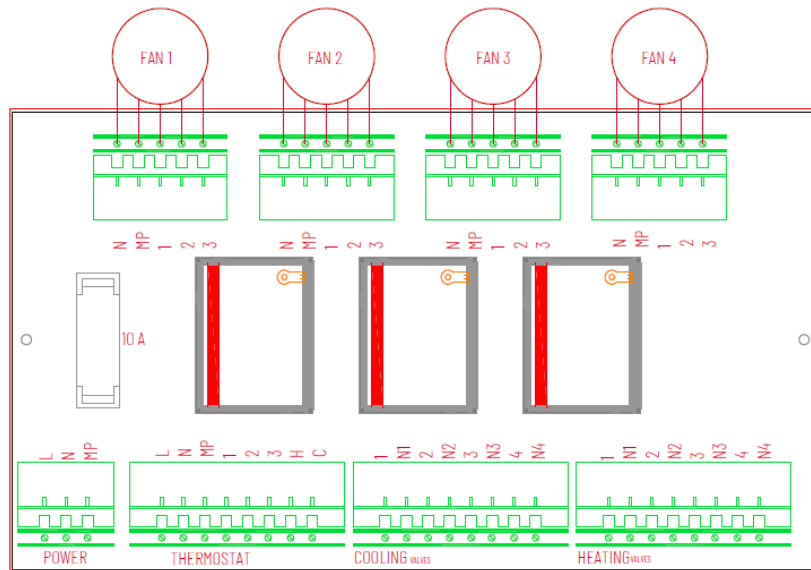


Figure 4.1

5. INSTALLATION

1. In-Box (Wall Mount)

6. INSTALLATION WARNINGS

- ⚠ Installation and maintenance must be carried out only by qualified technical personnel, with the unit disconnected from the supply.
- ⚠ The unit ships with a factory default password. The password must be changed during commissioning; otherwise anyone with network access can reconfigure the device.
- ⚠ The unit is intended for in-panel use and must not be exposed to direct water or dust.
- ⚠ Reversing A and B on the RS-485 line prevents communication; follow the terminal markings.
- ⚠ The shield (S) must be earthed at one point only; earthing both ends creates an earth loop.
- ⚠ Do not route the RS-485 line in the same conduit as power cables.
- ⚠ Do not obstruct the ventilation openings or mount the unit directly beside heat-producing equipment.
- ⚠ The supply voltage must not go outside the 24 VDC $\pm 5\%$ range.

7. DIMENSIONS

Dimensions (W x D x H): 195 X 145 X 85 mm · Weight: 0.6 KG



Figure 7.1

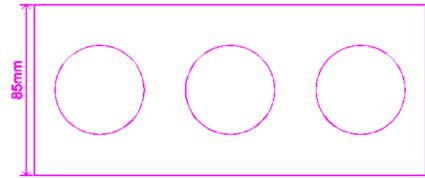


Figure 7.2