HDL-MPL40E/TILE.48

Tile Series Climate Panel

Product Name	Panel & Frame	Model No.
Tile Series Climate Panel (Plastic Version)	Tile Series Climate Panel	HDL-MPL40E/TILE.48
	Frame	HDL-MP1-EC/TILE.48

buspro

Datasheet

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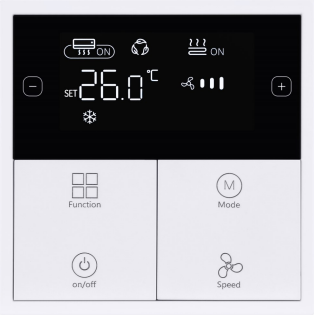


Figure 1. Tile Series Climate Panel

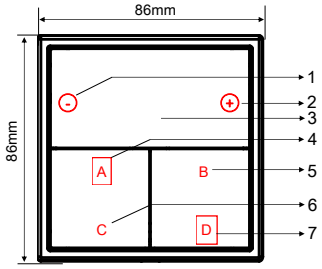


Figure 2. Dimensions - Front View



Figure 3. Dimensions - Side View

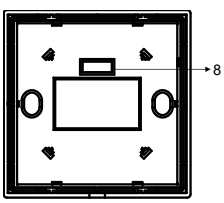


Figure 4. Components - Back View

Overview

Tile Series Climate Panel (See Figure 1) is divided into a LCD display and four pushbuttons, enabling controls of air conditioning, floor heating and ventilation system. Parameters can be set by HDL Buspro Setup Tool or manually set on the panel. The brightness level can be set. The icons and text on the panel support laser labelling.

Its functions include:

- Built-in temperature and humidity sensor
- Built-in proximity sensor, when the panel detects human body, the LCD screen backlight and button lights can be lit.
- Adjustable LCD backlight brightness
- Different pages for air conditioning, floor heating and ventilation system, and each can be used to control 1 channel device.
- Icons and text support laser labelling
- Enables controls and settings: Page switching, Air conditioner on / off, Air conditioner mode setting, Air conditioner temperature setting, Air conditioner fan speed setting, Static display of ambient temperature & humidity, Floor heating on / off, Floor heating temperature and mode setting, Ventilation on/off, Ventilation fan speed setting, Ventilation mode setting, Backlight brightness setting
- Supports upgrade online
- Supports easy programming

Components and Operation

Dimensions - See Figure 2 - 3

Components - See Figure 4

1. "-" Button: Decrease the set temperature
2. "+" Button: Increase the set temperature
3. LCD display: Displays information such as icons and status.
4. Page switching button: Used to switch pages among air conditioning page, floor heating page and ventilation page.
5. Return button & Mode switching button: Used to return to the main interface page and switch modes of air conditioning, floor heating and ventilation.
6. On/Off button: Switch on/off of air conditioning, floor heating and ventilation system.
7. Fan speed button: Used to switch fan speed of air conditioning and floor heating.
8. Communication interface

Operation

Programming mode: Keep pressing any button for 15 seconds and then the panel will enter programming mode.

Upgrade mode: Keep pressing Button ㊀and D simultaneously before powered on (See Figure 2) , release the buttons after being powered on for 2s, then the panel will enter upgrade mode.

Panel Lock/unlock: Keep pressing Button C for 5 seconds, then the panel will be locked/unlocked.

Installation

Installation - See Figure 5

Step 1. Install the wall box in the wall.

Step 2. Secure the power interface into the wall box with screws.

Step 3. Install the panel cover on the power interface.

Step 4. Mount the frame around the panel.

Note(s)

- The panel should be mounted on the wall box with power interface.
- Buspro connection - Series connection. (hand-in-hand recommended)
- The panel should be connected to the adapter board for UI updating.

Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

HDL-MPL40E/TILE.48*1 / Datasheet*1

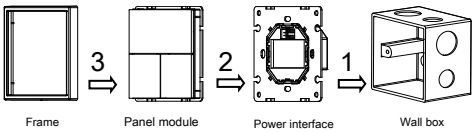


Figure 5. Installation



Figure 6. Horizontal installation

Notes: Plastic panels can be only installed horizontally.

Product name	Frame Types	Gang	Dimensions
2/3/4-gang frames	Plastic	2 gang	172*86*11(mm)
		3 gang	258*86*11(mm)
		4 gang	344*86*11(mm)

Technical Data

Basic Parameters

Working voltage	12~30V DC
Working current	30mA/24V DC
Communication	HDL Buspro
Cable diameter of Buspro terminal	0.6-0.8mm

External Environment

Working temperature	-5℃~45℃
Working relative humidity	≤90%
Storage temperature	-20℃~60℃
Storage relative humidity	≤93%

Specifications

Dimensions	86×86×11(mm)
Net weight	76g
Housing material	Glass, PC
Installation	Wall box (See Figure 5)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o
IC	o	o	o	o	×	×
Glass	o	o	o	o	o	o

The symbol “-” indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol “×” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

HDL Buspro Cable Guide

HDL Buspro	HDL Buspro Cable	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue white/Green white
COM	Black	Brown white/Orange white
24V DC	Red	Brown/Orange

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