

| Product Name<br>产品名称  | Panel & Frame<br>面板 & 边框 | Model No.<br>型号    |
|---|--------------------------|--------------------|
| Tile Series OLED Panel<br>(Plastic & metal versions)<br>方悦系列OLED面板<br>(塑料版本和金属版本) | OLED Panel<br>OLED面板     | M/PTOL6.1          |
|   | Frame<br>边框              | HDL-MP1-EC/TILE.48 |



Datasheet  
产品说明书

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Figure 1. Tile Series OLED Panel  
图 1. 方悦系列OLED面板

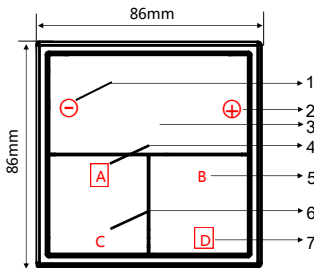


Figure 2. Dimensions - Plastic version  
图 2. 尺寸图 - 塑料版本

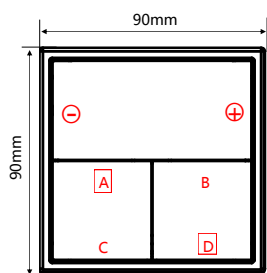


Figure 3. Dimensions - Metal version  
图 3. 尺寸图 - 金属版本



Figure 4. Dimensions - Side View  
图 4. 尺寸图 - 侧面

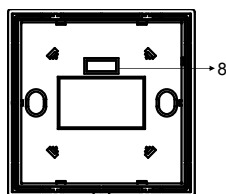


Figure 5. Components - Back View  
图 5. 部件 - 背面图

## Overview

Tile OLED Panel (See Figure 1) is divided into an OLED display and four pushbuttons, enabling controls of air conditioning, fan coil unit, floor heating and ventilation system. Parameters can be set by ETS or manually set on the panel. The brightness level can be set. The icons and text on the panel support laser labelling.

## Functions

- Built-in temperature sensor and humidity sensor
- Different pages for air conditioning, floor heating and ventilation system.
- Customizable icons and text
- Adjustable OLED backlight brightness
- Enables controls and settings: Page switching, Air conditioner on / off, Air conditioner mode setting, Air conditioner temperature setting, Air conditioner fan speed setting, Floor heating on / off, Floor heating temperature and mode setting, Floor heating channel selection, Ventilation on/off, Ventilation channel selection, Ventilation fan speed setting, Ventilation mode setting, Backlight brightness setting, Standby time setting, Language setting.

## Important Notes

- The panel should be mounted on the wall box with power interface.
- The device meets KNX guidelines and the parameters are set by the Engineering Tool Software (ETS).

## Product Information

Dimensions - See Figure 2 - 4

- 1. "-" Button:** Select previous target, decrease temperature and set standby time.
  - 2. "+" Button:** Select next target, increase temperature and set standby time.
  - 3. OLED display:** Displays information such as icons and status.
  - 4. Confirm button & switch pages:** Used to confirm information and switch pages between air conditioning, fan coil unit, floor heating and ventilation.
  - 5. Return button & switch modes:** Used to return to the previous page and switch modes of air conditioning, fan coil unit and floor heating.
  - 6. On/Off button:** Switch on/off of air conditioning, FCU, floor heating and ventilation system.
  - 7. Fan speed button:** Used to switch fan speed of air conditioning, fan coil unit and floor heating.
  - 8. Communication interface:** KNX bus connector.
- Manual setting:** Press button C & D (see Figure 2 & 3) simultaneously for 2 seconds and enter setting mode to set OLED brightness, standby time, language, etc.
- Programming:** Press button A & D (see Figure 2 & 3) simultaneously for 2 seconds and then the panel will enter programming mode.

Components - See Figure 5

Installation - See Figure 6

- Step 1. Install the wall box in the wall.
- Step 2. Secure the power interface to the wall box with screws.
- Step 3. Install the panel on the power interface.
- Step 4. Install the frame around the panel.

Horizontal installation - See Figure 7

Vertical installation - See Figure 8

## 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.
- The device should be wall box mounted. 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 replace parts, 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

Panel\*1 / Datasheet\*1

## 产品概述

方悦系列OLED面板(见图1)设有机械按键。每组按键键位可定制。OLED背光亮度可调,具有专门的空调、FCU、地暖、新风页面。页面参数可通过ETS软件设置或手动设置。

## 功能说明

- 内置温度传感器和湿度传感器
- 具有专门的空调、FCU、地暖、新风页面
- 用户自定义按键标签
- OLED背光亮度可调
- 面板控制包括:页面切换、空调开关、空调模式设置、空调温度设置、空调风速设置、地热开关、地热温度及模式设置、地热通道选择、新风开关、新风通道选择、新风风速设置、新风显示类型设置、背光亮度设置、待机时间设置、语言切换

## 注意事项

- 面板必须与电源底座配合使用,并暗盒安装。
- 本设备属于KNX标准设备,使用ETS软件进行编程。

## 产品信息

产品尺寸 - 见图 2-4

- 1. 向下选择按键:** 向下选择,温度和待机时间
  - 2. 向上选择按键:** 向上选择,温度和待机时间
  - 3. OLED屏:** 显示图标及页面信息
  - 4. 确认按键&页面切换按键:** 用于确认信息&在空调页面,FCU页面,地暖页面和新风页面间切换
  - 5. 返回按键&模式切换按键:** 用于返回上一级页面&空调模式切换,FCU模式和地暖模式切换
  - 6. 开关按键:** 空调开关,FCU开关,地暖开关和新风开关
  - 7. 风速切换按键:** 空调风速切换,FCU风速切换和新风风速切换
  - 8. 通信接口:** KNX接口
- 手动设置:** 同时按C和D按键约2秒,可进入手动设置模式。可进行系统设置(包括:OLED亮度调节,待机时间)和语言切换。
- 编程:** 如图2-3所示,同时按A和D按键约2秒,面板将进入编程模式。

部件 - 见图 5

安装 - 见图 6

- 步骤1. 将底盒安装在墙上。
- 步骤2. 用螺丝将面板电源底座固定在底盒里。
- 步骤3. 将面板安装在电源底座上。
- 步骤4. 装上边框。

横向多联边框 - 见图 7

纵向多联边框 - 见图 8

## 安全警告

- 本设备的安装及调试工作必须由我司或我司指派的机构进行。其电气安装的计划和施工,必须遵守当地相关的安全标准和法规。
- 该产品需暗盒安装,未按照本说明书进行安装及接线方式的,所造成的一切后果皆与我司无关。
- 请不要私自拆装或更换零部件,否则可能会导致机械故障、电击、火灾或身体伤害。

## 装箱清单

面板\*1 / 说明书\*1

## Technical Data

### Basic Parameters

|                                |               |
|--------------------------------|---------------|
| Working voltage                | 21~30V DC     |
| Working current                | 13mA / 30V DC |
| Communication                  | KNX           |
| Cable diameter of KNX terminal | 0.6-0.8mm     |

### External Environment

|                           |            |
|---------------------------|------------|
| Working temperature       | -5°C~45°C  |
| Working relative humidity | ≤90%       |
| Storage temperature       | -20°C~60°C |
| Storage relative humidity | ≤93%       |

### Specifications

|  |  |
|--|--|
| Dimensions                                     | Plastic version: 86×86×11(mm)<br>Metal version: 90×90×11(mm)               |
| Net weight                                     | Plastic version: 69g<br>Metal version: 107g                                |
| Housing material                               | Plastic version:<br>Flame retardant PC<br>Metal version:<br>Aluminum alloy |
| Installation                                   | Wall box (See Figure 6)  |
| Protection rating<br>(Compliant with EN 60529) | IP20   |

### Name and Content of Hazardous Substances in Products

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

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 "x" 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.

### KNX Cable Guide

| KNX | KNX cable |
|-----|-----------|
| -   | Black     |
| +   | Red       |

## 技术参数

### 基本参数

|           |               |
|-----------|---------------|
| 工作电压      | 21~30V DC     |
| 工作电流      | 13mA / 30V DC |
| 通信协议      | KNX           |
| KNX端子要求线径 | 0.6-0.8mm     |

### 外部环境

|        |            |
|--------|------------|
| 工作温度   | -5°C~45°C  |
| 工作相对湿度 | ≤90%       |
| 储存温度   | -20°C~60°C |
| 储存相对湿度 | ≤93%       |

### 产品规格

|                       |  |
|-----------------------|--|
| 尺寸                    | 塑料版本: 86×86×11(mm)<br>金属版本: 90×90×11(mm) |
| 净重                    | 塑料版本: 69g<br>金属版本: 107g                  |
| 外壳材料                  | 塑料版本:<br>阻燃PC<br>金属版本:<br>铝合金            |
| 安装方式                  | 暗盒安装 (见图6)                               |
| 防护级别<br>(符合 EN 60529) | IP20                                     |

### 产品中有害物质的名称及含量

| 部件名称  | 有害物质      |           |           |                  |               |                 |
|-------|-----------|-----------|-----------|------------------|---------------|-----------------|
|       | 铅<br>(Pb) | 汞<br>(Hg) | 镉<br>(Cd) | 六价铬<br>(Cr (VI)) | 多溴联苯<br>(PBB) | 多溴二苯醚<br>(PBDE) |
| 塑胶组件  | o         | o         | o         | o                | o             | o               |
| 五金铜件  | o         | o         | o         | o                | -             | -               |
| 螺丝组件  | o         | o         | o         | x                | -             | -               |
| 焊锡    | x         | o         | o         | o                | -             | -               |
| PCB组件 | x         | o         | o         | o                | o             | o               |
| IC    | o         | o         | o         | o                | x             | x               |

- : 表示不含有该有害物质。

o : 表示该有害物质在该部件所有均质材料中的含量均在IEC62321-2015规定的限量要求以下。

x : 表示该有害物质至少在该部件的某一均质材料中的含量超出IEC62321-2015规定的限量要求。

### KNX总线定义

| KNX | KNX 电缆 |
|-----|--------|
| -   | 黑      |
| +   | 红      |

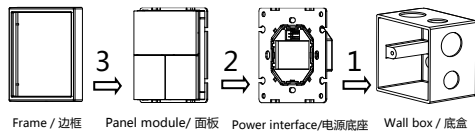


Figure 6. Installation  
图 6. 安装图

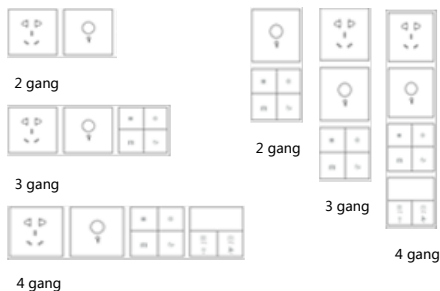


Figure 7. Horizontal installation  
图 7. 横向多联边框

Figure 8. Vertical installation  
图 8. 纵向多联边框

Notes: Metal panels can be installed either horizontally or vertically. Plastic panels can be only installed horizontally.

注意: 金属版本支持横向和纵向多联体安装, 塑料版本仅支持横向多联体安装。

| Product name<br>产品名称      | Frame Types<br>边框类型 | Gang<br>联体数  | Dimensions<br>尺寸 |
|---------------------------|---------------------|--------------|------------------|
| 2/3/4-gang frames<br>多联边框 | 金属边框<br>Metal       | 2 gang<br>2联 | 176*90*10.5(mm)  |
|                           |                     | 3 gang<br>3联 | 262*90*10.5(mm)  |
|                           |                     | 4 gang<br>4联 | 348*90*10.5(mm)  |
|                           |                     | 2 gang<br>2联 | 172*86*10.5(mm)  |
|                           | 塑料边框<br>Plastic     | 3 gang<br>3联 | 258*86*10.5(mm)  |
|                           |                     | 4 gang<br>4联 | 344*86*10.5(mm)  |

### 技术支持

服务热线: 020-85820195

(工作时间: 9:00-12:00, 13:00-18:00, 星期一至星期五)

邮箱: kfb@hdlchina.com.cn

网址: http://www.hdlchina.com

### Technical support

E-mail: support@hdlautomation.com

Website: https://www.hdlautomation.com

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