M/PTL4.1

KNX Granite Display

Hardware Version: A

**Datasheet**

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File Edition: B

# Overview

KNX Granite Display (See Figure 1) is a high-end and multi-function control panel for home automation. With 4-inch LCD screen and full-screen touch control, it is convenient for the users to control lighting, curtain, scene, AC/FCU, floor heating, music and fresh air in an intuitive way.

Its functions include:

- Built-in temperature and humidity sensor
- Built-in proximity sensor, when the panel detects someone, the LCD screen will wake up.
- Adjustable LCD backlight
- LCD screen wakes up automatically.
- Screen lock setting
- 3 shortcut scene buttons, 4 function navigation buttons, and 1 main menu button available in main interface
- Time and environment status display setting
- Dedicated pages for lighting, curtain, scene, AC/FCU, floor heating, music and fresh air control
- A total of 20 control keys can be set on the lighting page. The control types are: Switch, dimmer, RGB and CCT light.
- Curtain control: Up to 8 curtains supported. Supports opening/closing, stopping, percentage adjustment, swing angle control
- Scene control: Up to 20 scenes supported
- AC/FCU control: Supports switching, temperature adjustment, fan speed adjustment, mode switching of up to 6 AC/FCU(s)
- Floor heating control: Supports switching, temperature adjustment, mode switching of up to 8 floor heating controls, Floor heating modes: Normal, Day, Night, Away, Timer.
- Music play: 1 music player supported
- Fresh air control: Supports switching, fan speed adjustment, mode switching of 1 fresh air control




Figure 1. KNX Granite Display

# Components

**Dimensions - See Figure 2 - 5**

**A1. LCD screen:** 4-inch touch screen

**A2. Temperature and humidity sensor**

**A3. Communication interface:** KNX connector for connecting to KNX Panel Power Interface EU (with External Power Supply) (M/PCI2PE.1)

**A4. Mounting slot:** Connects to KNX Panel Power Interface EU (with External Power Supply) .

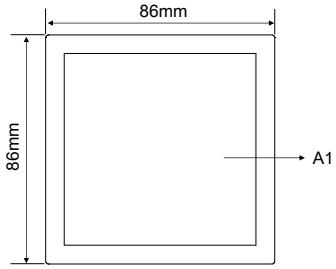



Figure 2. Dimensions - Front View

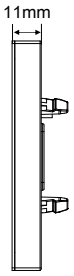



Figure 3. Dimensions - Side View

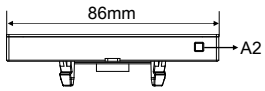



Figure 4. Dimensions - Side View

# Important Notes

- The panel must be wall box installation.
- The panel must work in conjunction with KNX Panel Power Interface EU (with External Power Supply) (M/PCI2PE.1).
- The device is compliant with the KNX standard and the parameters are set by the Engineering Tool Software (ETS).

# Safety Precautions

- The installation and testing for the product must be carried out by HDL Automation Co., Ltd. or its appointed service agencies. The electric construction shall comply with local laws and safety regulations.
- HDL will not be responsible for any consequence caused by the inexpert or faulty installation and wiring methods, which are not in accordance with the instructions contained in this operating instruction.
- Please do not privately disassemble or replace any parts of the product. Otherwise, it may cause mechanical fault, electric shock, fire or personal injuries.
- Please contact our after-sales departments or our designated service agencies for your maintenance service. Product failures caused by private disassembly are not subject to this warranty.

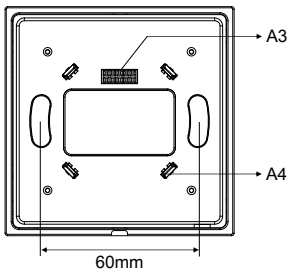



Figure 5. Dimensions - Back View

# Package Contents

M/PTL4.1*1 / Datasheet*1

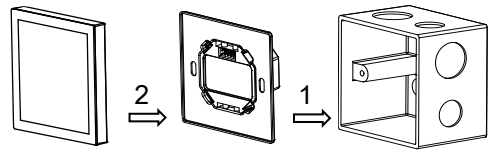



Figure 6. Installation

## Technical Data

| Basic Parameters | |
|---|---|
| Working voltage | 21~30V DC |
| Working current | 12mA/30V DC |
| Auxiliary voltage | 20~30V DC |
| Auxiliary current | 108mA/24V DC |
| Communication | KNX |
| Cable diameter of KNX terminal | 0.6 - 0.8mm |
| **External Environment** | |
| Working temperature | -5℃~45℃ |
| Working relative humidity | ≤90% |
| Storage temperature | -20℃~60℃ |
| Storage relative humidity | ≤93% |
| **Specifications** | |
| LCD screen resolution | 720x720 |
| Dimensions | 86×86×11(mm) |
| Net weight | 101g |
| Housing material | Glass, aluminum, PC |
| Installation | Wall box (See Figure 6) |
| Protection rating (Compliant with EN 60529) | IP20 |
| **Approved** | |
| CE, RoHS | |
| KNX | |

## KNX Cable Guide

| KNX | KNX Cable |
|---|---|
| - | Black |
| + | Red |

## Installation

**Installation - See Figure 6**

Step 1. Install the wall box in the wall.

Step 2. Fix the power interface onto the wall box with screws.

Step 3. Hold the edge of the panel, and insert the panel in the slots of power interface vertically.

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