M/PTL4.1

KNX Granite Display

Hardware Version: A

Datasheet

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Edition V1.0.0

Figure 1. KNX Granite Display

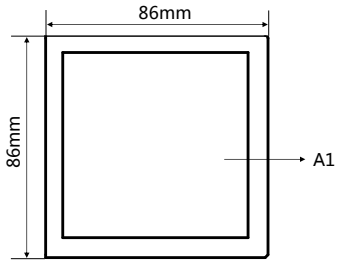

Figure 2. Dimensions - Front View

Figure 3. Dimensions - Side View

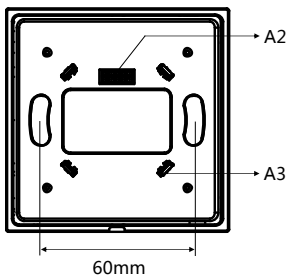

Figure 4. Dimensions - Back View

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, proximity sensor
- Adjustable LCD backlight
- LCD screen wakes up automatically.
- 3 quick execution scene buttons, 4 shortcut function buttons, and 1 main menu button available in main interface
- Standby display interface: displays date and time, and supports periodically switching between 2 standby pages.
- 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, and RGB.
- Curtain control: up to 8 curtains supported. Supports opening/closing, stopping, percentage adjustment
- Scene control: up to 20 scenes supported
- AC/FCU control: Supports switching, temperature adjustment, fan speed adjustment, mode switching of up to 3 AC/FCU
- Floor heating control: Supports switching, temperature adjustment, mode switching of up to 8 floor heating control, 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

Components and Operation

Dimensions - See Figure 2 - 4

A1. LCD screen: 4-inch touch screen

A2. Communication interface: KNX connector for connecting to KNX Panel Power Interface EU (with External Power Supply) (M/PCI2PE.1)

A3. Mounting slot: Connects to KNX Panel Power Interface EU (with External Power Supply) .

Proximity Sensing: Also known as wake-up function, when someone approaches the panel, the LCD screen will wake up.

Installation

Installation - See Figure 5

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.

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 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

M/PTL4.1*1 / Datasheet*1

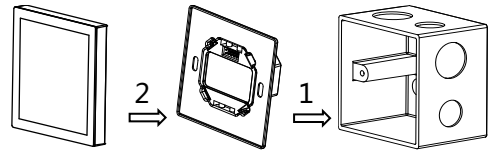

Figure 5. Installation

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 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.

KNX Cable Guide

KNX	KNX Cable
-	Black
+	Red

Technical support
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