

Figure 1. Granite 4.3"

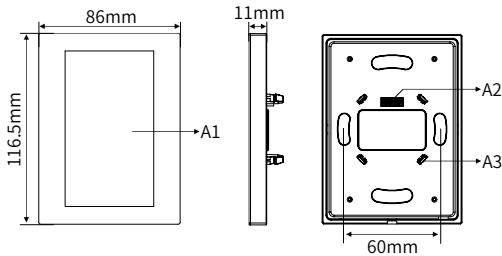


Figure 2. Dimensions - Front View Figure 3. Side View Figure 4. Back View

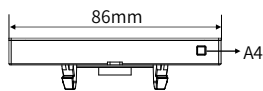


Figure 5. Dimensions - Side View

Portrait View

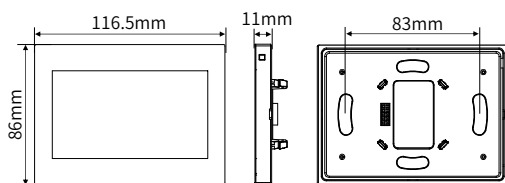


Figure 6. Dimensions - Front View Figure 7. Side View Figure 8. Back View

Landscape View

## Overview

Granite 4.3" (See Figure 1) is a high-end and multi-function control panel for home automation. With 4.3-inch LCD screen and full-screen touch control, it is convenient for the users to control devices of lighting, curtain, scene, air conditioning, floor heating, music and fresh air in an intuitive way.

Its functions include:

- The factory default panel is portrait display and can be set to landscape display on the setting page. (when the engineer installs and debugs)
- Built-in temperature and humidity sensor, proximity sensor
- Adjustable LCD backlight brightness
- LCD screen wakes up automatically
- Supports screen lock
- Supports sleep mode, the panel can be set to enter sleep mode if there is no operation for a certain period of time.
- 3 shortcut scene buttons, 2 function navigation buttons (vertical screen)/4 function navigation buttons (horizontal screen), and 1 main menu button available in main interface (All of which support local operation and configuration via HDL Buspro Setup Tool.)
- Time and environment status display and setting
- Dedicated pages for lighting, curtain, scene, air conditioning, floor heating, music and fresh air
- Up to 64 control buttons can be set in lighting page in total, with the control types of relays, dimmers, and RGB lamp bands and CCT.
- Up to 8 curtain motors supported for curtain control (including motorized curtain, roller blind motor), with the control types of open/close, stop, percentage adjustment, swing angle control
- Scene control: Up to 32 scenes supported
- Air conditioning control: Up to 8 air conditioners supported, with the control types of on/off, temperature adjustment, fan speed adjustment, mode switching
- Floor heating control: Up to 8 floor heating modules supported, with floor heating modes of Normal, Day, Night, Away, Auto and control types of on/off, temperature adjustment, floor cooling and floor heating switch, mode switching
- Music play: Up to 8 music players supported
- Fresh air control: Up to 8 fresh air devices supported with the control types of on/off, fan speed, mode, etc.
- Buspro voltage detection supported
- Online update supported via HDL Buspro Setup Tool

## Components and Operation

Dimensions - See Figure 2 - 8

**A1. LCD screen:** 4.3-inch touch screen

**A2. Communication interface:** HDL Buspro bus connector for connecting to panel power interface.

**A3. Mounting slot:** Connects to panel power interface.

**A4. Temperature and humidity sensor**

**Proximity sensing:** Also known as wake-up function, when the panel detects someone (maximum sensing distance: 20~30cm), the LCD screen will wake up automatically.

## Important Notes

- The panel must be wall box installation.
- The panel must work in conjunction with power interface.
- Buspro connection - Series connection. (hand-in-hand recommended)
- The panel should be connected to the switchboard for UI updating.



## 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.

## Package Contents

HDL-MPL43C.46\*1 / Datasheet\*1

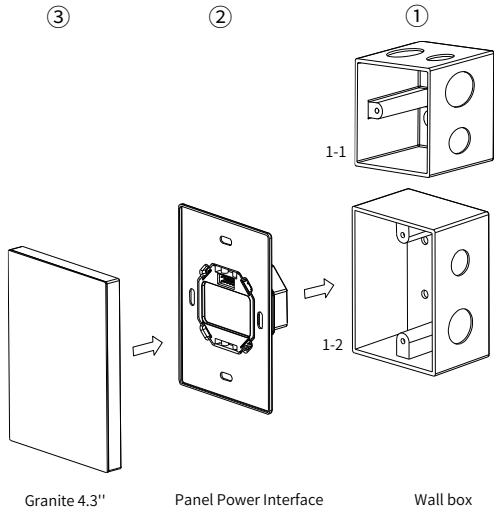


Figure 9. Portrait Installation

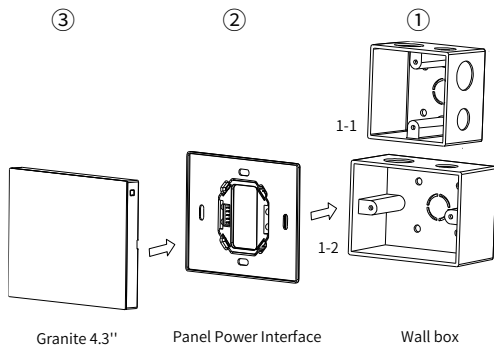


Figure 10. Landscape Installation

## Technical Data

### Basic Parameters

Working voltage	12~30V DC
Working current	120mA/24V DC
Communication	HDL Buspro
Cable diameter of Buspro 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

LCD screen resolution	480x800
Dimensions	86x116.5x11 (mm)
Net weight	135g
Housing material	Glass, aluminum, PC
Installation	Wall box (See Figure 9-10)
Protection rating (Compliant with EN 60529)	IP20

### Approved

CE

RoHS

## HDL Buspro Cable Guide

HDL Buspro	HDL Buspro Cable
DATA+	Yellow
DATA-	White
COM	Black
24V DC	Red

## Installation

### Installation - See Figure 9 - 10

Step ①: Install the wall box (1-1 or 1-2) in the wall.

Step ②: Fix the power interface into the wall box with screws.

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

#### Technical support

E-mail: [hdltickets@hdlautomation.com](mailto:hdltickets@hdlautomation.com)

Website: <https://www.hdlautomation.com>

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