



# SolarEdge ONE

## Controller for C&I

Quick Installation Guide  
Version 1.2



Densys pv5

| We deliver. You install. The sun does all the rest. |

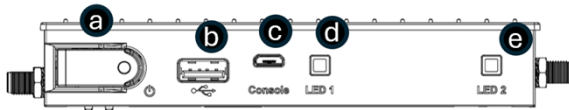
Data sheet provided for you @ [www.densys-pv5.de](http://www.densys-pv5.de)

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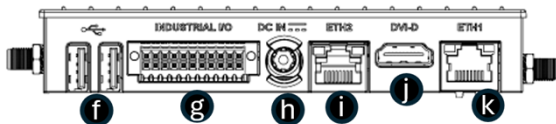
# solar**edge**

## ONE Controller for C&I Quick installation guide

### Interfaces and connectors



- a** Power ON button with LED
- b** Type A USB 3.0
- c** Micro USB (serial debug console)
- d** LED 1 - Local devices communication
- e** LED 2 - Cloud communication

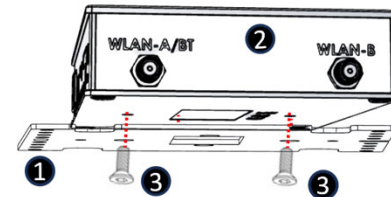


- f** Type A USB 2.0 x 2
- g** Industrial I/O - 22-pin dual-row plug with push-in spring connections
- h** DC Power input
- i** RJ45 Ethernet1 – external network
- j** DVI-D
- k** RJ45 Ethernet2 – internal network

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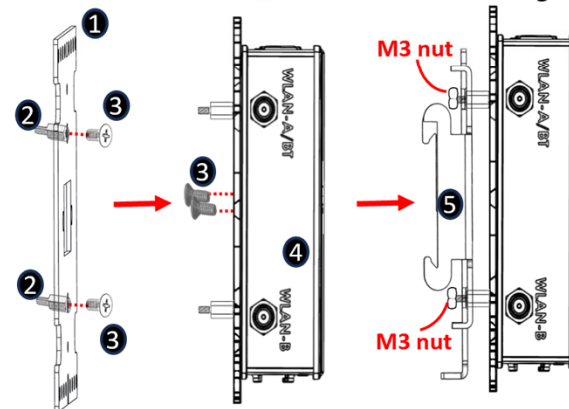
### Installation - wall mount

Attach the wall mounting bracket **1** to the back of the controller **2** using the screws **3** provided.



### Installation – DIN rail

1. Attach x2 standoffs **2** to wall-mount bracket **1** using screws **3**
2. Attach wall-mount bracket to controller **4** using screws **3**
3. Attach DIN rail mount **5** to the standoffs using M3 nuts.



### ... Scanning the controller QR code

Leave at least 20cm space on the right-hand side.

Connect the power adaptor cable to the controller DC power input jack




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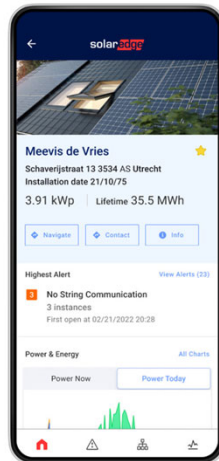
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## Setting up

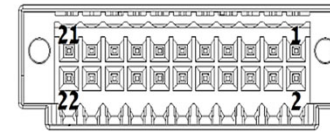
1. Connect an Ethernet cable between the controller ETH1 and the router.
2. Connect devices to the ONE Controller.
3. Download the SolarEdge GO App.
4. Plug the power adaptor into an AC outlet, the ONE Controller and the Power LED will turn ON. If not, press the Power ON button 
5. Open the SolarEdge GO App and go to the chosen commercial site. Tap Add Device → SolarEdge ONE Controller → follow on-screen instructions.



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## Industrial I/O

Pin-out is determined by the I/O modules configuration



INDUSTRIAL I/O

Pin	I/O	P domain	Pin	I/O	P domain
1	RS485-1 (A)	1	12	-	3
2	CAN_L	1	13	IN3	3
3	RS485-1 (B)	1	14	-	3
4	CAN_H	1	15	OUT0	3
5	RS485-1 (G)	1	16	OUT1	3
6	RS485-2 (A)	2	17	OUT3	3
7	RS485-2 (B)	2	18	OUT2	3
8	RS485-2 (G)	2	19	24V_IN	3
9	IN0	3	20	24V_IN	3
10	IN1	3	21	GND_3	3
11	IN2	3	22	GND_3	3



### NOTE

Before wiring, connect the dual-row plug.

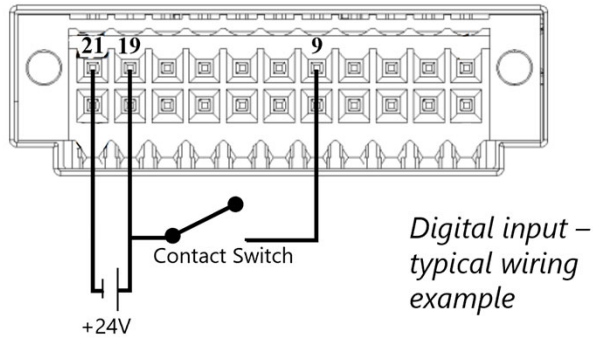
**Locking**

Spring terminal

**Wire cross-section** 0,05mm<sup>2</sup> – 0,5mm<sup>2</sup>

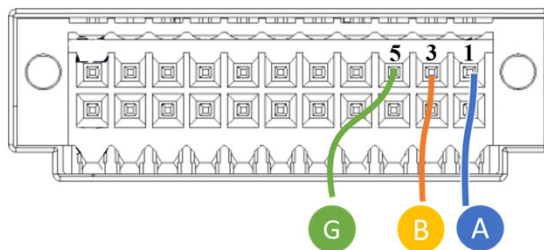
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## Digital I/O



### RS485

- Use a three-wire cable for RS485-1/2 terminal blocks on the Industrial I/O
- Supports devices such as meters, sensors, etc.
- Maximum cable length 1km
- Use CAT5e or CAT6 cable, or 3-wire shielded twisted pair (0.2 to 1mm<sup>2</sup>)
- Insert the wire ends into the **A**, **B** and **G** pins



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## Specifications


Power Adapter 100-240VAC 50/60Hz


External Ethernet: 1000Mbps  
Communication Wi-Fi: 802.11ax, 2.4GHz and 5GHz

Environmental Operational temperature:  
Industrial: -40°C to 80°C

## LED Indications

Cloud  • Solid: Connected to SE server  
• Blinking: No connection to SE server

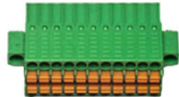
Local  • Solid: All devices are connected  
• Blinking: device disconnect

Power  • Solid: Normal operation  
• Blinking: Booting or updating  
• Off: No power

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## Accessories

Dual-row plug



## Required tools

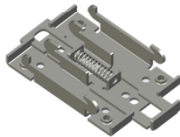
Phillips screwdriver



Wall mount bracket

5.5mm socket  
screwdriver

DIN rail mount



2x antennas



DC power adaptor



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## Safety Information

- For indoor use only
- DO NOT use in a wet area
- DO NOT clean with liquid



For the ONE Controller  
datasheet, scan the QR code

Discard this product according to local regulations or  
send it back to SolarEdge.

**Support contact information:**

If you have technical problems concerning SolarEdge  
products, contact:

<https://www.solaredge.com/service/support>

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