# SolarEdge ONE Controller for C&I

## Quick Installation Guide

Version 1.4

MAN-01-01078-1.4
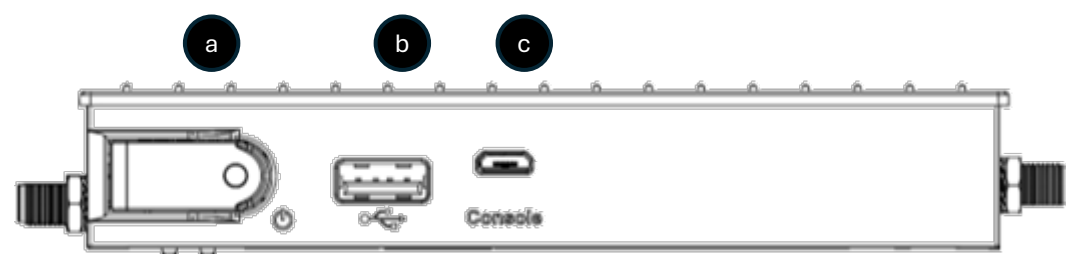
**1**

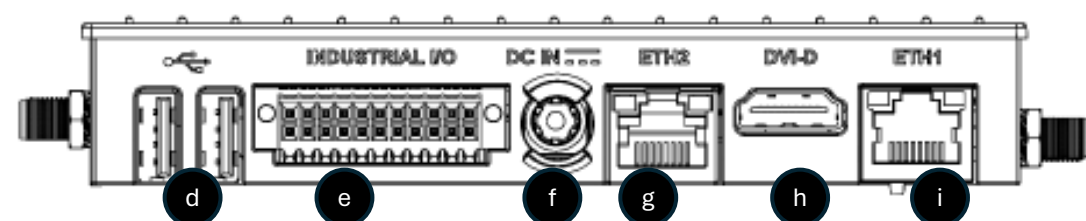# solaredge

## ONE Controller for C&I
## Quick installation guide

### Interfaces and connectors



- **a** Power ON button with LED ⏻
- **b** Type A USB 3.0
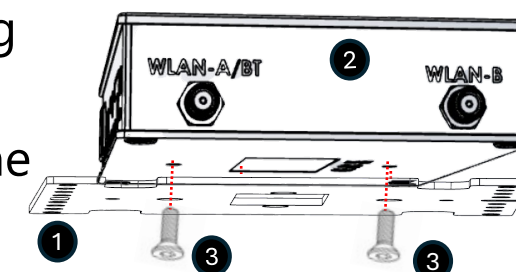- **c** Micro USB (serial debug console)



- **d** Type A USB2.0 x 2
- **e** Industrial I/O - 22-pin dual-row plug with push-in spring connections
- **f** DC Power input
- **g** RJ45 Ethernet2
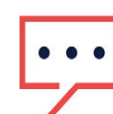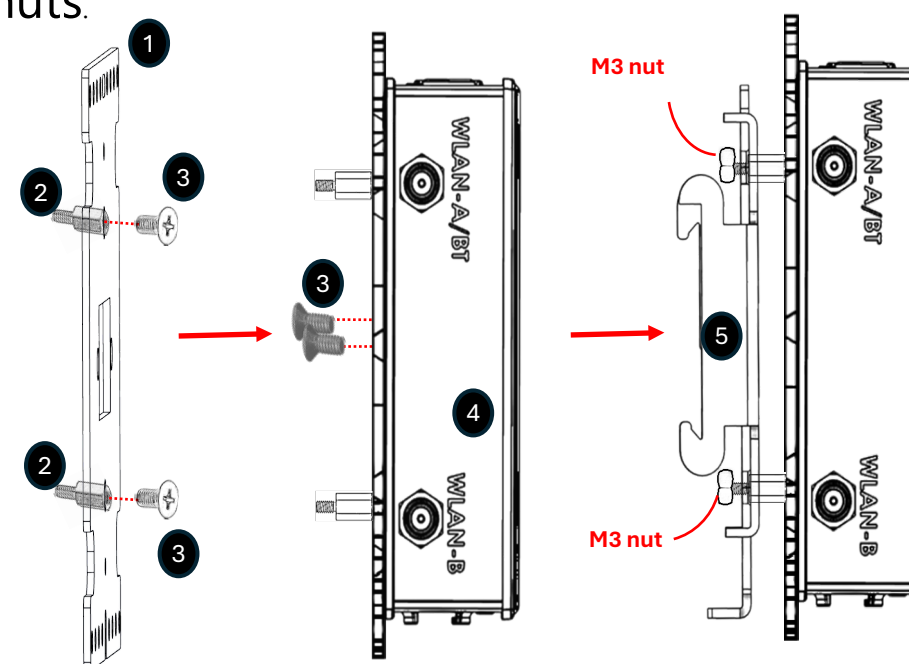- **h** DVI-D
- **i** RJ45 Ethernet1

**2**

## 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

# 3

## 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.
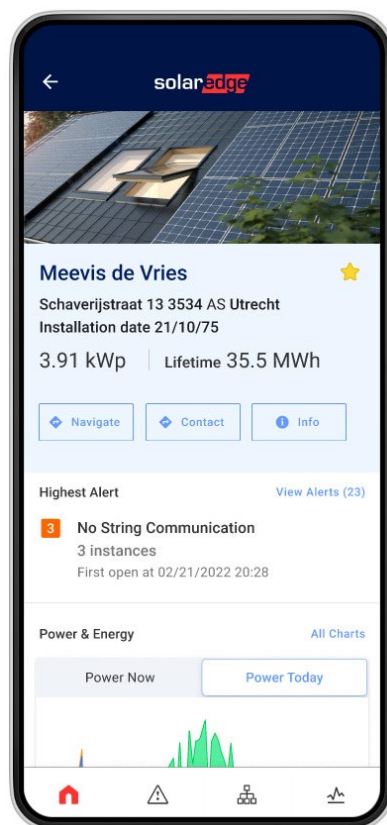


# 4

## Industrial I/O

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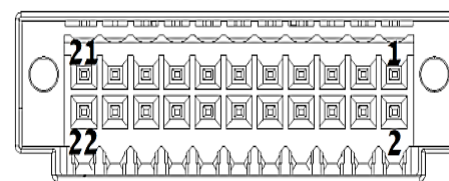


| Pin | I/O | P domain | Pin | I/O | P domain |
|-----|-----|----------|-----|-----|----------|
| 1 | **RS485-1 A(+)** | 1 | 12 | - | 3 |
| 2 | CAN bus L(ow) | 1 | 13 | IN3 | 3 |
| 3 | **RS485-1 B(-)** | 1 | 14 | - | 3 |
| 4 | CAN bus H(igh) | 1 | 15 | OUT0 | 3 |
| 5 | **RS485-1 (G)** | 1 | 16 | OUT1 | 3 |
| 6 | **RS485-2 B(-)** | 2 | 17 | OUT3 | 3 |
| 7 | **RS485-2 A(+)** | 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-raw plug.

| **Locking** | Spring terminal |
|-------------|-----------------|
| **Wire cross-section** | 0,05mm² – 0,5mm² |

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## Digital I/O

**21 19**      **9**

Contact Switch

*Digital input – typical wiring example*

+24V
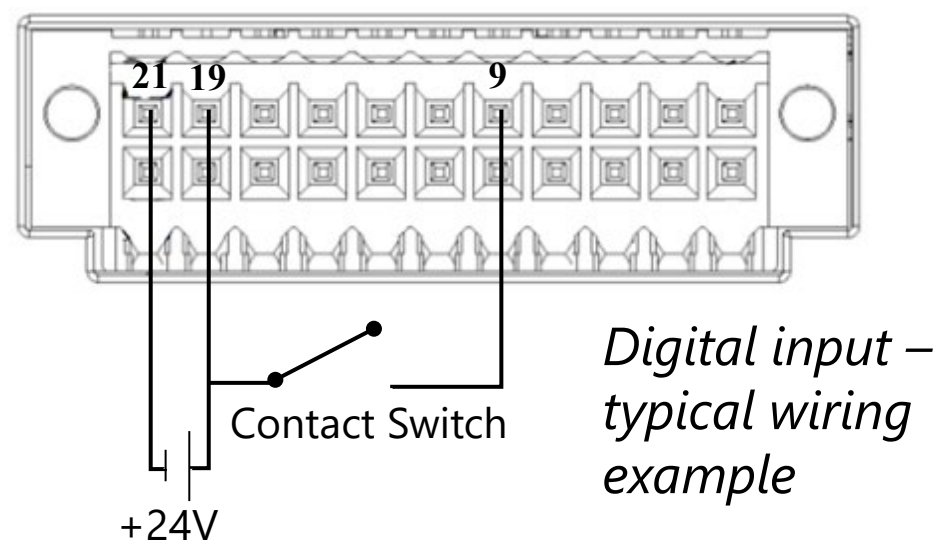
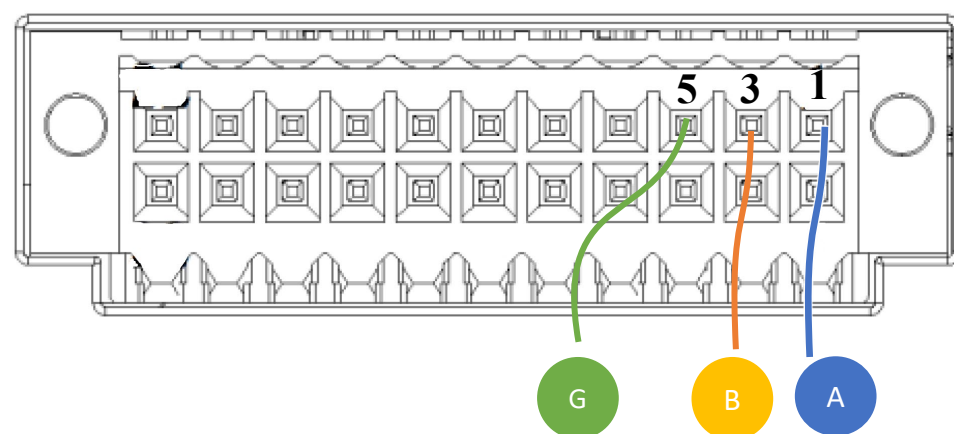## RS485

- 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 1mm²)
- Insert the wire ends into the **A(+)**, **B(-)** and **G(⏚)** pins

**5 3 1**

G    B    A

# 6

## Specifications

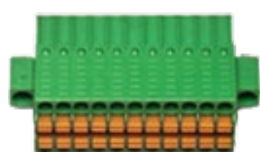| | |
|---|---|
| **Power Adapter** | 100-240VAC 50/60Hz |
| **External Communication** | Ethernet: 1000Mbps<br>Wi-Fi: 802.11ax, 2.4GHz and 5GHz |
| **Environmental** | Operational temperature:<br>Industrial: -40°C to 80°C |

## Interface

| | | |
|---|---|---|
| **Power** | ⏻ | •Solid: Normal operation<br>•Blinking: Booting or updating<br>•Off: No power |

## 7

| Accessories | Required tools |
|---|---|
| Dual-row plug | Phillips screwdriver |
| Wall mount bracket | 5.5mm socket screwdriver |
| DIN rail mount | |
| 2x antennas | |
| DC power adaptor | |

## 8

### ⚠ 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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