

# RESOL Smart Display SD3

Mounting

Connection



48003920

Thank you for buying this RESOL product.  
Read this manual carefully to get the best performance from this unit.

# SD3



Manual

[www.resol.de](http://www.resol.de)

## Safety advice

Please pay attention to the following safety advice in order to avoid danger and damage to people and property.

This product is to be used in accordance with its intended use only (see pages 2 and 3).

The device is to be operated on safety extra-low voltage via the RESOL VBus®.

The surface material is susceptible to scratches.

Avoid scratches on surfaces when arranging the device.

## Technical Data

**Housing:** High-grade steel frame with wood elements

**Dimensions:** 150 x 165 x 24 mm

**Protection type:** IP20  
(suitable for dry rooms)

**Protection class:** III

**Display:**  
Numerical 7-segment LED display

**Segment size:**  
7,5 x 10 mm, 10° digit inclination

**Ambient temperature:** 32 ... 104 °F

**Power supply:** via RESOLVBus®

**Bus connection:** RESOLVBus®



## Scope of delivery

- 1 x Smart Display SD3
- 1 x wall-mounting bracket
- 1 x accessory bag:
  - 2 x screw and dowel
  - 1 x wooden rod

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Errors and technical changes excepted.

The Smart Display SD3 is designed for simple connection to RESOL controllers via the RESOLVBus® for visualisation of the data issued by the controller: collector and tank temperatures as well as energy yield of the solar system. The use of high-efficient LEDs and filter glass assures a high optical brilliance and good readability - even in poor visibility conditions and at a larger distance. An additional power supply is not required.

**Note:**  
Remove protective film from front plate or housing if necessary.

## Declaration of conformity

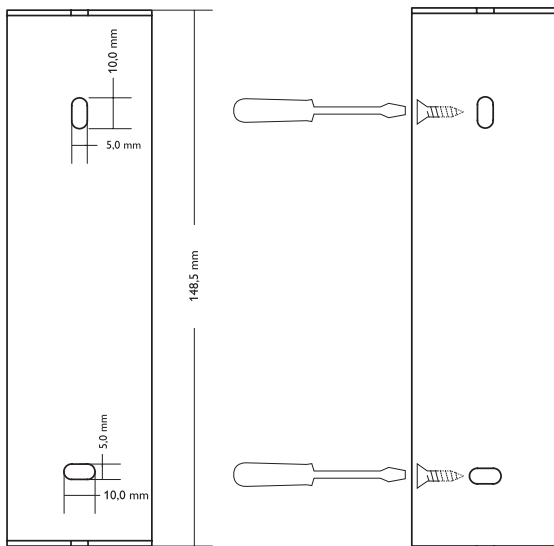
The product complies with the relevant directives and is therefore labelled with the CE mark. The Declaration of Conformity is available upon request, please contact RESOL.

- simultaneous visualisation of collector and tank temperature as well as heat quantity
- one 6-digit and two 4-digit 7-segment LED displays

- simple connection via RESOL VBus®
- outstanding design
- power supply via RESOL VBus®

## 1. Installation

### 1.1 Mounting



#### Wall mounting

The wall mounting of the SD3 has to be carried out using the enclosed high-grade steel bracket.

1. Hold bracket to the desired place on the wall. Mark drilling holes on the wall and drill holes with a 6 mm drill.
2. Insert dowels and attach the bracket to the wall with the screws (accessory bag).

Place the SD3 in the middle of the bracket.



The device must only be located in dry interior rooms. It is not suitable for installation in hazardous locations and should be protected from electromagnetic fields.



wooden rod



#### Use as table-top unit

Insert wooden rod into the lower hole on the rear side of the housing.

The SD3 can now be placed to the desired place.

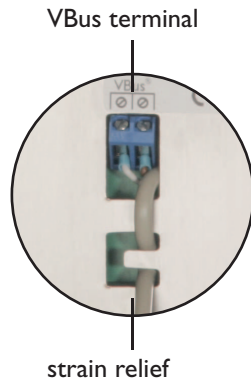
Note:

Protect susceptible furniture surfaces against scratches.

## 2. Connection and commissioning



The RESOL Smart Display SD3 is designed for simple connection to RESOL controllers via the RESOL VBus®. The bus cable can be extended with a two-wire cable (bell wire). The cable carries low voltage and must not run together in a cable conduit with cables carrying a higher voltage than 50 V (please pay attention to the valid local regulations such as VDE regulations for Germany). The cross section must be at least 0,5 mm<sup>2</sup> and the cable can be extended up to 50 m in the case of a single connection.



The Smart Display SD3 can be operated in parallel with a controller and additional modules via a bus line.

Connect the connection cable with stripped ends and any polarity to the VBus®-terminals at the rear side of the SD3.

Pass cable through strain relief.

During commissioning, the Smart Display SD3 carries out an initialising phase. After this test the following indications are shown:

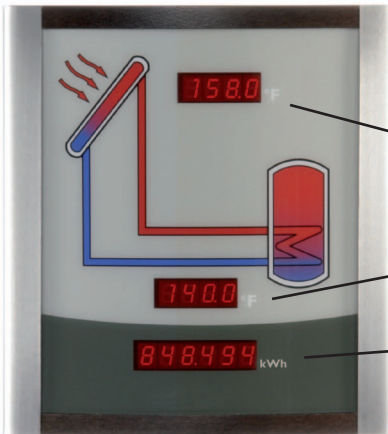
- SD3 in the upper display
- Software version in the display in the middle
- Date of software version (YYMMDD) in the lower display

Afterwards, the SD3 receives data packets from the controller. The progress is indicated in the lower display.

Afterwards, the SD3 is ready for normal operation.

**Note:**  
When several additional modules are used simultaneously, an additional power supply of the modules might possibly be required.

### 3. Displays



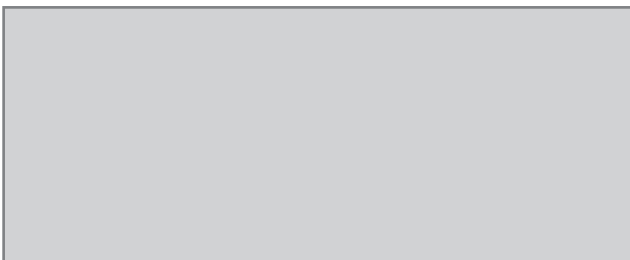
**Note:**  
If no indication is shown in the display, please check the connection at the VBus® terminals.

Collector temperature in °F

Tank temperature in °F

Energy yield in kWh.

#### Your Distributor:



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#### Important notice:

We took a lot of care with the texts and drawings of this manual and to the best of our knowledge and consent. As faults can never be excluded, please note: Your own calculations and plans, under consideration of the current standards and DIN-directions should only be basis for your projects. We don't offer a guarantee for the completeness of the drawings and texts of this manual - they only represent some examples. They can only be used at your own risk. No liability is assumed for incorrect, incomplete or false information and the resulting damages.

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#### Please note:

The design and the specifications are to be changed without notice.

The illustrations may differ from the original product.