



# JUMO miroVIEW

## Smart digital indicator with limit value monitoring function

### Brief description

The smart digital indicator is used for the electronic display of various process variables. The process variables are acquired by the device via RTD temperature probe, thermocouple, current 0(4) to 20 mA or voltage 0 to 10 V. Further functionalities are limit value monitoring, min/max value storage, hold function and tare function. The device is available with 2 relays or with 1 relay and 1 digital output (DC 0/14 V).

The device is characterized by simple, clearly structured operation supported by texts in English, German, French, and Spanish. Process values, texts, and parameters are shown in two 18-segment LCD displays. Additional display elements provide information about the switch positions of the outputs, the Bluetooth® connection, the timer status, the ramp function, and temperature unit. The digital flag with toggle function enables the display to be automatically toggled, for example between the min. and max. value and message text display. It can be used on both displays.

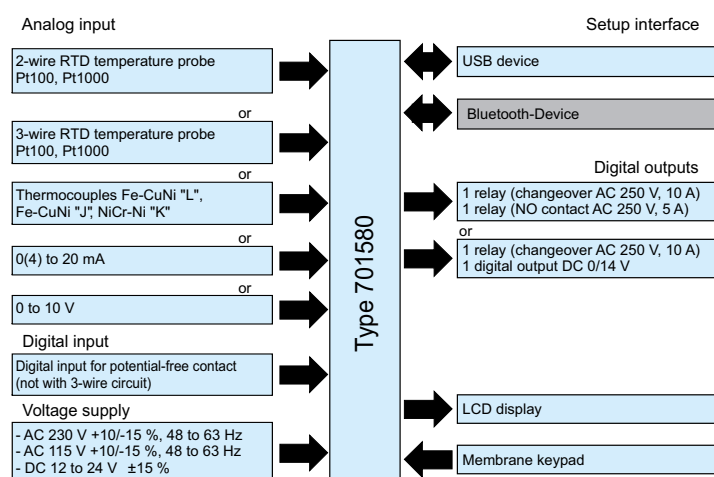
Terminal blocks with PUSH IN technology enable fast electrical installation.

Operation, parameterization, and configuration are carried out via a membrane keyboard with four keys. The setup program on a PC allows the device to be configured without any problems. No separate voltage supply is required when configuring via the USB interface (USB-powered). Due to the optional Bluetooth® interface, the device can be operated and configured via the JUMO smartCONNECT app.



miroVIEW Type 701580

### Block diagram



### Special features

- Integrated timer function
- Service and operating hours counter
- Bluetooth® interface (optional)
- Fast wiring through PUSH IN technology
- High-quality display and intuitive operation
- Configuration on the device or with the setup program (accessories) via USB interface (USB-powered)
- Operator guidance with text support in 4 languages
- Limit value monitoring function

### Certificates and approvals



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## Description

### Indicator functions

In addition to the classic display of the measured value, the device has additional functions such as min/max value display, a hold function for freezing the measured value and a tare function for weighing applications. Some functions can be configured via the membrane keypad on the front.

### Inputs and outputs

RTD temperature probe, thermocouple, current, voltage can be selected as analog input. A combination of 1 changeover contact and 1 normally open contact or 1 relay output in combination with a digital input is available as relay outputs. The digital input is provided to connect a potential-free contact.

### USB device interface

The device is equipped with a USB device interface (micro-B socket on the rear side). This is intended for connecting to a PC and for configuring the device via the setup program. Thereby the device is powered via the USB interface. As a result, no mains supply is required during the configuration.

### Bluetooth®

The device can be fitted with an optional Bluetooth® interface. The range is approximately 10 m. Using the smartCONNECT app installed on a mobile device, the device can be configured to a limited extent and the configuration can be copied to other devices or, for example, sent by email.

### Electrical connection

The electrical connection saves time by using practical spring-cage terminals (Push-In technology).

### Limit value monitoring functions

The device is equipped with three limit value monitoring functions, each with two configurable alarm functions. Any analog signal from a selector is selected as the value to be monitored. An absolute value serves as the limit value. Special functions such as switch-on/switch-off delay, pulse function, alarm suppression in the switch-on phase or in case of a parameter change, alarm latch, and lock with acknowledgment are available. With the limit value monitoring function, extensive alarm and limit value functions can be implemented.

### Timer

After the timer is started, a signal is output for the duration of the timer running time; this signal is invertible. It is also possible to start the timer after the lead time has elapsed or after reaching a tolerance limit. A timer end signal can be output after the timer has elapsed (limit by time or acknowledgement).

### Service counter

The service counter is used either to count the switching frequency of a binary signal or to determine its switch-on duration. When the set limit value is reached, a binary signal is activated that needs to be acknowledged.

In addition, an operating hours counter is available that determines the device's operation time.

### Setup program

The setup program, which is available as an accessory, provides the user with an easy and comfortable way to configure the device using a PC. This allows data records to be created, edited and transferred to the device, as well as read out from there. A recording function for start-up is available.

### Customer-specific

#### Linearization

Sensor signals with special characteristic line properties can also be used through customer-specific linearization. Programming is carried out in the setup program on the basis of a value table with up to 40 value pairs or through a formula (4th order polynomial).

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## Technical data

### Analog input

#### Thermocouples

| Designation | Type | Standard                                | ITS     | Measuring range  | Accuracy <sup>a</sup> |
|-------------|------|-----------------------------------------|---------|------------------|-----------------------|
| Fe-CuNi     | "L"  | DIN 43710 (1985-12)                     | IPTS-68 | -200 to +900 °C  | ≤ 0.4 %               |
| Fe-CuNi     | "J"  | DIN EN 60584-1:2013<br>IEC 60584-1:2013 | ITS-90  | -210 to +1200 °C | ≤ 0.4 % from -100 °C  |
| NiCr-Ni     | "K"  | DIN EN 60584-1:2013<br>IEC 60584-1:2013 | ITS-90  | -270 to +1300 °C | ≤ 0.4 % from -80 °C   |

<sup>a</sup> Accuracy refers to the measuring range.

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| Ambient temperature influence | ≤ 300 ppm/K                                                             |
| Cold junction                 | Internal or external (constant)                                         |
| Cold junction temperature     | 0 °C (permanently set)                                                  |
| Input filter                  | Digital filter, 2nd order; filter constant can be set from 0 to 100.0 s |

#### RTD temperature probe

| Designation       | Standard                            | ITS    | Connection type | Measuring range | Accuracy <sup>a</sup> | Measuring current |
|-------------------|-------------------------------------|--------|-----------------|-----------------|-----------------------|-------------------|
| Pt100             | DIN EN 60751:2008<br>IEC 60751:2008 | ITS-90 | Two/three-wire  | -200 to +600 °C | ≤ 0.25 %              | 500 µA            |
| Pt1000            | DIN EN 60751:2009<br>IEC 60751:2008 | ITS-90 | Two/three-wire  | -200 to +600 °C | ≤ 0.25 %              | 100 µA            |
| Customer-specific |                                     |        |                 | 150 to 3000 Ω   | ≤ 0.25 %              | < 500 µA          |

<sup>a</sup> Accuracy refers to the measuring range.

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| Ambient temperature influence | ≤ 300 ppm/K                                                             |
| Sensor line resistance        | Max. 30 Ω per line                                                      |
| Input filter                  | Digital filter, 2nd order; filter constant can be set from 0 to 100.0 s |

#### Voltage, current (standard signals)

| Designation | Measuring range | Accuracy <sup>a</sup> | Input resistance or compliance voltage |
|-------------|-----------------|-----------------------|----------------------------------------|
| Voltage     | 0 to 10 V       | ≤ 0.15 %              | > 100 kΩ                               |
| Current     | 4 to 20 mA      | ≤ 0.125 %             | < 2.5 V                                |
|             | 0 to 20 mA      | ≤ 0.125 %             | < 2.5 V                                |

<sup>a</sup> Accuracy refers to the maximum measuring range. Small measuring spans lead to reduced linearization accuracy.

|                               |                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------|
| Ambient temperature influence | ≤ 100 ppm/K                                                                      |
| Underrange / overrange        | According to NAMUR NE 43: Edition: 2021-07-26<br>(only current input 4 to 20 mA) |
| Input filter                  | Digital filter, 2nd order; filter constant can be set from 0 to 100.0 s          |

#### Measuring circuit monitoring

The device behavior in the event of a fault is configurable.

| Measuring probe       | Underrange | Overrange | Short-circuit (probe/line) | Break (probe/line) | Reverse polarity |
|-----------------------|------------|-----------|----------------------------|--------------------|------------------|
| RTD temperature probe | ++         | ++        | ++                         | ++                 | ---              |
| Thermocouple          | ++         | ++        | ---                        | ++                 | (+) <sup>a</sup> |
| Current 0 to 20 mA    | ---        | ++        | ---                        | ---                | ---              |
| Current 4 to 20 mA    | ++         | ++        | ++                         | ++                 | ++               |

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| Measuring probe                                                                          | Underrange | Overrange | Short-circuit (probe/line) | Break (probe/line) | Reverse polarity |
|------------------------------------------------------------------------------------------|------------|-----------|----------------------------|--------------------|------------------|
| Voltage 0 to 10 V                                                                        | ---        | ++        | ---                        | ---                | ++               |
| ++ = is detected      --- = is not detected      (+) = is detected in certain conditions |            |           |                            |                    |                  |

<sup>a</sup> Dependent on the set characteristic line

## Digital input

|                                              |                                                                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Input for potential-free contact<br>Function | Contact closed: input is active ( $R_{ON} < 1 \text{ k}\Omega$ )<br>Contact open: input is inactive ( $R_{OFF} > 100 \text{ k}\Omega$ ) |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

## Digital outputs

|                                                                       |                                                                                                |               |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------|
| 1 relay (changeover contact)<br>Switching capacity<br>Contact life    | Max. 10 A at DC 30 V or AC 250 V, resistive load<br>100,000 switching operations at rated load | Order code 23 |
| 1 relay (normally open contact)<br>Switching capacity<br>Contact life | Max. 5 A at DC 30 V or AC 250 V, resistive load<br>100,000 switching operations at rated load  |               |
| 1 relay (normally open contact)<br>Switching capacity<br>Contact life | Max. 10 A at DC 30 V or AC 250 V, resistive load<br>100,000 switching operations at rated load | Order code 26 |
| 1 digital output DC 0/14 V<br>Output signal<br>Current                | DC 0/14 V $\pm 15 \%$<br>Max. 20 mA (at nominal voltage 14 V)                                  |               |

## Interface

|                                                               |                                                  |
|---------------------------------------------------------------|--------------------------------------------------|
| USB device<br>Connector type<br>Standard<br>Max. cable length | Micro-B (socket)<br>Low-Speed, Full-Speed<br>5 m |
|---------------------------------------------------------------|--------------------------------------------------|

## Display

|                                  |                                   |                                 |
|----------------------------------|-----------------------------------|---------------------------------|
| 18-segment LCD displays          |                                   |                                 |
| Digit height<br>Color            | Upper display:<br>13 mm<br>white  | Lower display:<br>4 mm<br>Green |
| Places, including decimal places | 4                                 | 7                               |
| Decimal places                   | 0, 1, or automatic (configurable) |                                 |

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## Electrical data

|                                                                                                                                      |    |                                                                                                                                                                                                                             |                              |
|--------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Voltage supply according to the ordered version                                                                                      | 02 | AC 230 V -15/+10 %, 48 to 63 Hz                                                                                                                                                                                             |                              |
|                                                                                                                                      | 05 | AC 115 V -15/+10 %, 48 to 63 Hz                                                                                                                                                                                             |                              |
|                                                                                                                                      | 30 | DC 12 to 24 V, -15/+15 % SELV                                                                                                                                                                                               |                              |
| Electrical safety                                                                                                                    |    | acc. to DIN EN 61010-1:2020<br>Overvoltage category II to 300 V mains voltage,<br>Pollution degree 2                                                                                                                        |                              |
| Power consumption<br>Type 701580                                                                                                     |    | Type AC 230 V:<br>Max. 3.3 W                                                                                                                                                                                                | Type AC 115 V:<br>Max. 3.6 W |
| Accuracy of timer                                                                                                                    |    | 1 %                                                                                                                                                                                                                         |                              |
| Sampling rate                                                                                                                        |    | 250 ms                                                                                                                                                                                                                      |                              |
| Electrical connection                                                                                                                |    | On the back via spring-cage terminals (PUSH IN technology)                                                                                                                                                                  |                              |
| Conductor cross section, mechanical<br>Wire or stranded wire (without ferrule)<br>Stranded wire with ferrule<br><br>Stripping length |    | Min. 0.2 mm <sup>2</sup> , max. 1.5 mm <sup>2</sup><br><br>Without plastic collar: min. 0.2 mm <sup>2</sup> , max. 1.5 mm <sup>2</sup><br>With plastic collar: min. 0.2 mm <sup>2</sup> , max. 0.75 mm <sup>2</sup><br>8 mm |                              |
| Conductor cross section, electric<br>5 A load current<br>10 A load current                                                           |    | Min. 0.75 mm <sup>2</sup><br>Min. 1.0 mm <sup>2</sup>                                                                                                                                                                       |                              |

## Environmental influences

|                                                                                                |                             |                                                                                                                                                              |
|------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature range<br>Storage<br>Operation                                              | -30 to +70 °C               |                                                                                                                                                              |
|                                                                                                | -10 to +55 °C               |                                                                                                                                                              |
|                                                                                                | Max. 2000 m above sea level |                                                                                                                                                              |
| Site altitude                                                                                  |                             | Max. 2000 m above sea level                                                                                                                                  |
| Climatic environmental influences<br>Resistance to climatic conditions<br>Storage<br>Operation |                             | According to DIN EN 60721-3 with extended temperature range<br>≤ 90 % rel. humidity without condensation<br>According to class 1K2<br>According to class 3K3 |
| Mechanical environmental influences<br>Storage<br>Transportation<br>Operation                  |                             | According to DIN EN 60721-3<br>According to class 1M2<br>According to class 2M2<br>According to class 3M3                                                    |
| Electromagnetic compatibility (EMC)<br>Interference emission<br>Interference immunity          |                             | According to DIN EN 61326-1:2022<br>Class B <sup>a</sup><br>Industrial requirement <sup>b</sup>                                                              |

<sup>a</sup> The product is suitable for industrial use as well as for households and small businesses

<sup>b</sup> During EMC malfunctions, the measuring accuracy may reduce to ≤ 0.9 %.

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Case

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Case type          | Plastic case for panel mounting according to IEC 61554 (indoor use), cobalt blue RAL 5013 |
| Case front         | Membrane keyboard,<br>upper slope cobalt blue RAL 5013, lower slope silver grey RAL 7001  |
| Panel thickness    | 1 to 10 mm                                                                                |
| Case mounting      | In panel using the supplied mounting frame or both mounting elements                      |
| Operating position | Any <sup>a</sup>                                                                          |
| Protection type    | According to DIN EN 60529, IP65 on the front, IP20 on the back                            |
| Weight             |                                                                                           |
| Type 701580        | Max. 154 g                                                                                |

<sup>a</sup> The maximum admissible ambient temperature only applies for the installation with the display in a vertical position.

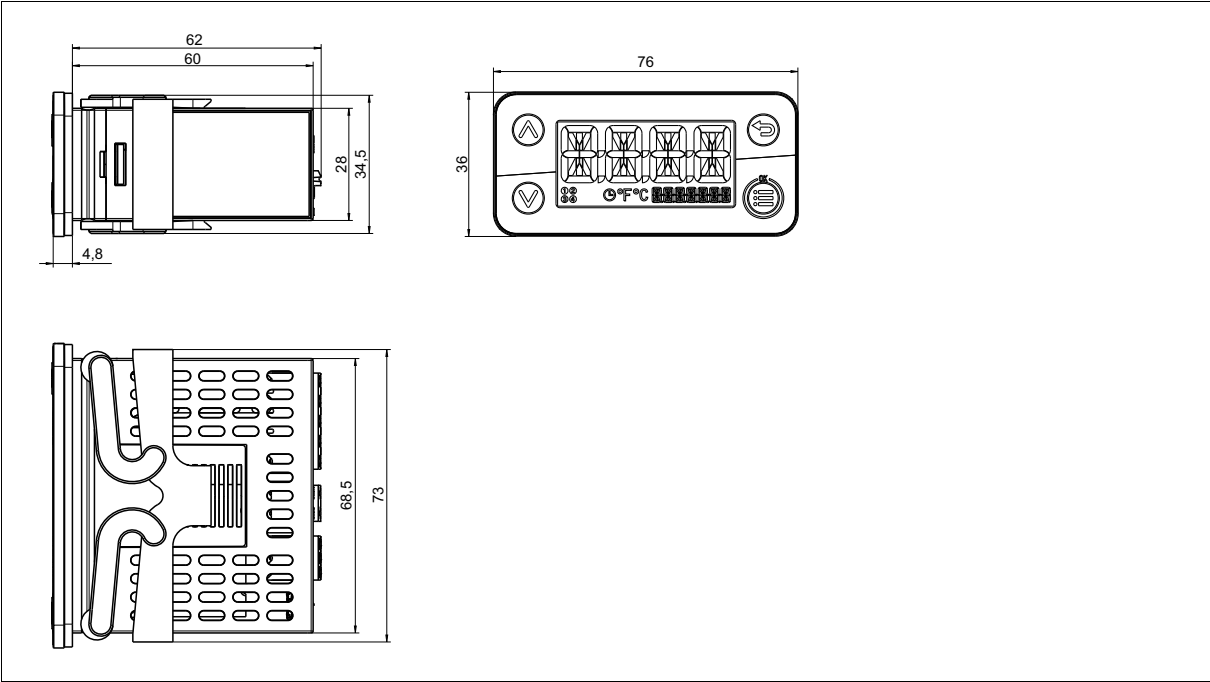
Certificates and approvals

| Approval mark | Test facility             | Certificates/Certification numbers | Inspection basis                                            | Valid for |
|---------------|---------------------------|------------------------------------|-------------------------------------------------------------|-----------|
| c UL us       | Underwriters Laboratories | E201387                            | UL 61010-1 (3rd Ed.),<br>CAN/CSA-22.2 No. 61010-1 (3rd Ed.) | All types |

The device is approved if the relevant approval mark is pictured on the device.

Dimensions

Type 701580



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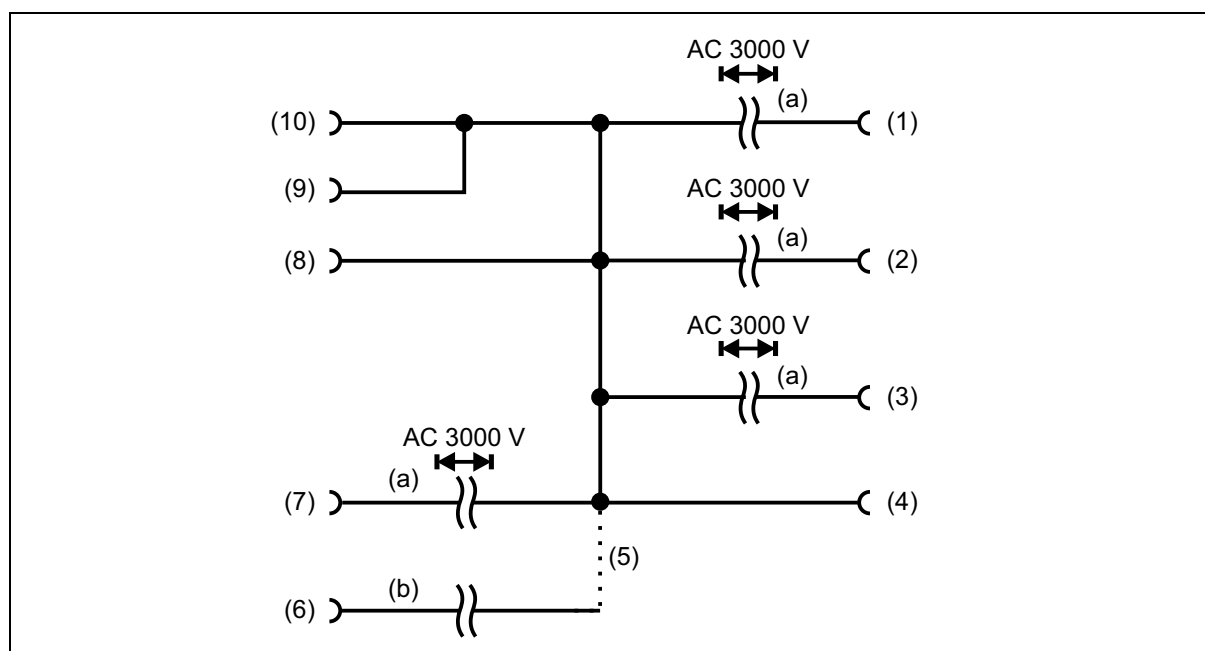


## Panel cut-outs

Panel cut-outs according to DIN IEC 61554

| Type   | Panel cut-out<br>(width x height) | Mounting depth with-<br>out seal | Minimum spacing of panel cut-outs<br>(for close mounting) |          |
|--------|-----------------------------------|----------------------------------|-----------------------------------------------------------|----------|
|        |                                   |                                  | Horizontal                                                | Vertical |
| 701580 | 69 +1 mm × 28.5 +1 mm             | 62 mm                            | 15 mm                                                     | 30 mm    |

## Galvanic isolation



|   |                                                                                                                                                                                                                                                                                                                                |    |                                                                               |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------|
| a | The voltage specifications correspond to the test voltages (alternating voltage, rms values) according to DIN EN 61010-1 (VDE 0411-1):2020-03                                                                                                                                                                                  | b  | Functional galvanic isolation for connecting SELV or PELV electrical circuits |
| 1 | Type 701580 (order code 23):<br>2 relay outputs (changeover contact, normally open contact)<br><br>The two relay outputs are not allowed to be operated on different mains voltage circuits. It is also not admissible to mix how the relay outputs are operated – using a SELV electrical circuit and a mains supply circuit. | 2  | Type 701580: Not available.                                                   |
| 3 | Type 701580 (order code 26):<br>1 relay output (normally open contact)                                                                                                                                                                                                                                                         | 4  | Type 701580 (order code 26):<br>1 digital output DC 0/14 V                    |
| 5 | or                                                                                                                                                                                                                                                                                                                             | 6  | Voltage supply DC 12 V to 24 V                                                |
| 7 | Voltage supply 230 V, 48 to 63 Hz<br>115 V, 48 to 63 Hz                                                                                                                                                                                                                                                                        | 8  | USB interface                                                                 |
| 9 | Digital input                                                                                                                                                                                                                                                                                                                  | 10 | Analog input                                                                  |

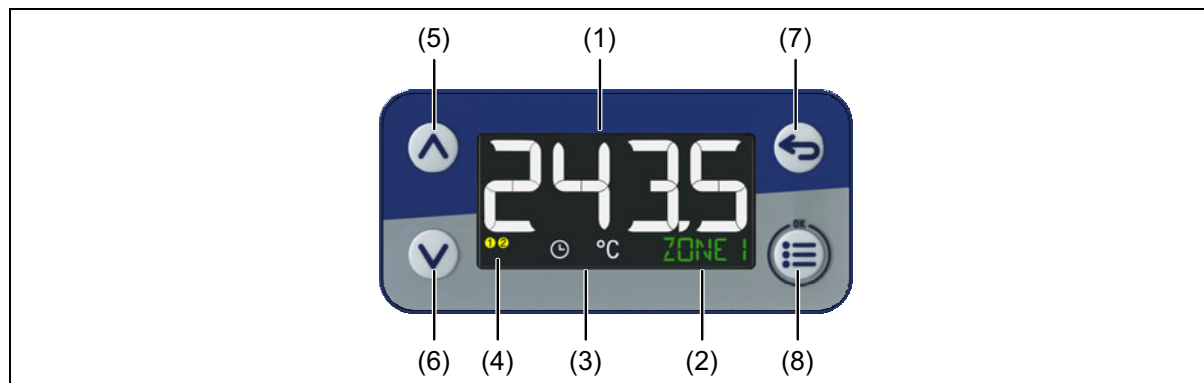
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## Display and control elements



|   |                                                                                                                                                                                    |   |                                                                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Display 1</b> - 18-segment LCD display (e.g. analog input), 4-digit, white; also for displaying menu items, parameters and text                                                 | 2 | <b>Display 2</b> - 18-segment LCD display (e.g. text), 7-digit green; displaying of menu items, parameters, text and values; here individually configured measuring point designation (ZONE 1) |
| 3 | Bluetooth® symbol flashing = not paired, Bluetooth® symbol lit up = pairing active, Timer symbol lit up = timer configured, Timer symbol flashing = timer active, Temperature unit | 4 | Switch position of the digital outputs (yellow = active)                                                                                                                                       |
| 5 | Up (in the menu: increase value, select previous menu item or parameter)                                                                                                           | 6 | Down (in the menu: reduce value, select next menu item or parameter)                                                                                                                           |
| 7 | Back (in menu: back to previous menu level, exit editing mode without change; in basic status: configurable function)                                                              | 8 | Menu/OK (call up main menu, switch to submenu/level, switch to editing mode, exit editing mode with change)                                                                                    |

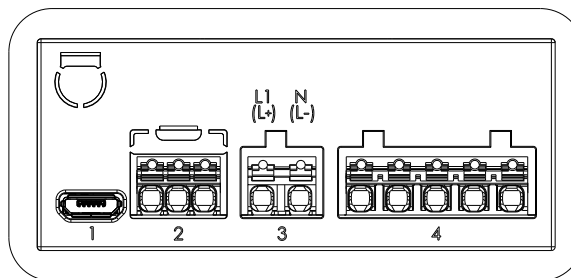


## Connection diagram

The connection diagram in the data sheet provides information on product selection.

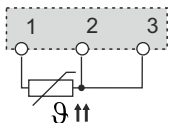
For the electrical connection, only use the installation instructions or the operating manual.

### Type 701580

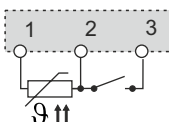


#### Terminal strip 2: Analog input, digital input

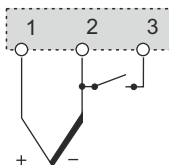
RTD temperature probe in three-wire circuit (no digital input)



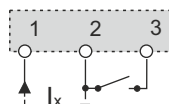
RTD temperature probe in two-wire circuit and Digital input



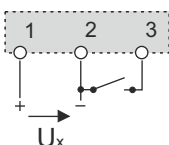
Thermocouple and digital input



Current 0(4) to 20 mA and digital input



Voltage 0 to 10 V and digital input



#### Terminal strip 3: L1(L+), N(L-)

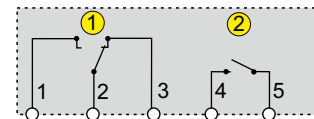
Voltage supply (see name-plate)

AC 230 V, 48 to 63 Hz  
 or  
 AC 115 V, 48 to 63 Hz  
 or  
 DC 12 to 24 V

#### Terminal strip 4: Digital outputs

1 relay changeover contact,  
 1 relay normally open contact

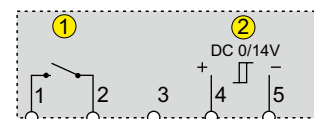
Digital output 1 (changeover contact) and  
 digital output 2 (normally open contact):



The two relays are not allowed to be operated on different mains voltage circuits. It is also not admissible to mix how the relays are operated – using a SELV electrical circuit and a mains supply circuit.

1 relay normally open contact,  
 1 digital output DC 0/14 V

Digital output 1 (normally open contact) and  
 digital output 2 (DC 0/14 V):



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## Order details

|            |                                                                                                               |
|------------|---------------------------------------------------------------------------------------------------------------|
| <b>(1)</b> | <b>Basic type</b>                                                                                             |
| 701580     | Type 701580 with max. 2 relays, format (76 x 36 x 62) mm                                                      |
| <b>(2)</b> | <b>Version</b>                                                                                                |
| 0          | Standard version                                                                                              |
| 1          | Customized hardware                                                                                           |
| 2          | Customized software                                                                                           |
| 3          | Customized hardware and software                                                                              |
| <b>(3)</b> | <b>Input (measurement input groups)<sup>a</sup></b>                                                           |
| 01         | 1 RTD temperature probe Pt100, Pt1000 in two-wire circuit, 1 digital input                                    |
| 02         | 1 RTD temperature probe Pt100, Pt1000 in three-wire circuit                                                   |
| 04         | 1 thermocouple and 1 digital input                                                                            |
| 05         | 0(4) to 20 mA and 1 digital input                                                                             |
| 06         | 0 to 10 V und 1 digital input                                                                                 |
| <b>(4)</b> | <b>Output</b>                                                                                                 |
| 23         | 1 relay (changeover contact AC 250 V, 10 A) and 1 relay (normally open contact AC 250 V, 5 A), resistive load |
| 26         | 1 relay (normally open contact AC 250 V, 10 A) resistive load and 1 digital output DC 0/14 V                  |
| <b>(5)</b> | <b>Voltage supply</b>                                                                                         |
| 02         | AC 230 V, +10/-15 %, 48 to 63 Hz                                                                              |
| 05         | AC 115 V, +10/-15 %, 48 to 63 Hz                                                                              |
| 30         | DC 12 to 24 V +15/-15 %                                                                                       |
| <b>(6)</b> | <b>Extra codes</b>                                                                                            |
| 000        | None                                                                                                          |
| 036        | Bluetooth                                                                                                     |

<sup>a</sup> It is not possible to switch from one measurement input group to another

|                      |                      |     |                      |     |                      |     |                      |   |                      |   |                      |
|----------------------|----------------------|-----|----------------------|-----|----------------------|-----|----------------------|---|----------------------|---|----------------------|
| <b>Order code</b>    | (1)                  | (2) | (3)                  | (4) | (5)                  | (6) |                      |   |                      |   |                      |
|                      | <input type="text"/> | /   | <input type="text"/> | -   | <input type="text"/> | -   | <input type="text"/> | - | <input type="text"/> | / | <input type="text"/> |
| <b>Order example</b> | 701580               | /   | 0                    | -   | 01                   | -   | 23                   | - | 02                   | / | 000                  |

## Scope of delivery

|                                 |
|---------------------------------|
| 1 device in the ordered version |
| 1 quick start guide             |
| 1 mounting frame                |

## Accessories

| Description                                             | Part no. |
|---------------------------------------------------------|----------|
| Setup program                                           | 00777355 |
| USB cable, A connector to Micro-B connector, length 3 m | 00616250 |
| JUMO smartCONNECT, Bluetooth-App                        | 00770436 |