Display FP200
Display and operator unit for devices of the iso685 series without display
**Display and operator unit for devices of the iso685 series without display**

### Device features

- Display for front panel mounting of series iso685
- Various mounting options
- Uniform operation
- Backlit buttons

### Product description

The front panel FP200 is an indication component with display and buttons for the ISOMETER® iso685. The front panel FP200 can only be used together with an ISOMETER® iso685 sensor variant.

### Function

The display and operator unit FP200 can be combined with a device of the iso685 series that does not feature a display. Front panel mounting is possible due to various mounting options. Therefore, the FP200 is placed into a panel cutout and connected to the iso685 series device without display via a patch cable on the rear side of the panel. Operation and indication are equal to devices with display.

In addition, it is possible to mount the iso685 series device without display to the rear side of the FP200. In this case, an automatic connection via spring contacts is made.

### Ordering information

<table>
<thead>
<tr>
<th>Supply voltage/frequency range U₅</th>
<th>Power consumption</th>
<th>Type</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 24 V/-20…+25 %</td>
<td>typ. 3 W</td>
<td>FP200</td>
<td>B 9106 7904</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FP200W</td>
<td>B 9106 7904W</td>
</tr>
</tbody>
</table>

1) Device version Option “W” with increased shock and vibration resistance

### Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP200 mechanical accessories comprising:</td>
<td>B91067907</td>
</tr>
<tr>
<td>2 screw attachments</td>
<td></td>
</tr>
<tr>
<td>Front cover 144x72 transparent (for IP65)</td>
<td>B98060005</td>
</tr>
<tr>
<td>Patch cable CAT5e (without UL, temperature range 0…+60 °C) Included in the scope of delivery</td>
<td>B91067906</td>
</tr>
<tr>
<td>FP200 adapter for front panel mounting IRDH575</td>
<td>B91067905</td>
</tr>
<tr>
<td>Front cover 144x96 transparent (for IP65)</td>
<td>B98060007</td>
</tr>
</tbody>
</table>
Operating elements

1 - LED "ON": Operation
2 - LED indication "SERVICE, ALARM 1, ALARM 2"
3 - LC display

Technical data

**Insulation co-ordination (IEC 60664-1/IEC 60664-3)**

- Rated voltage: 50 V
- Overvoltage category (OVC): III
- Rated impulse voltage: 800 V
- Rated insulation voltage: 50 V
- Pollution degree for accessible parts on the outside of the device housing: 3

**Supply voltage**

- Supply voltage $U_S$: DC 24 V (via iso685-S variant)
- Power consumption: 1.2 W

**Display**

- Graphic display: 127 x 127 pixel, 40 x 40 mm

**LEDs**

- ON (operation LED): green
- SERVICE: yellow
- ALARM 1: yellow
- ALARM 2: yellow

**Interfaces**

- Interface/protocol: Internal Bender
- Cable length: ≤ 5 m
- REMOTE Cable: Patch cable at least CAT5e

**Environment/EMC**

- EMC: IEC 61326-2-4; EN 50121-3-2; EN 50121-4
- Ambient temperatures:
  - Operating temperature: -25…+55 °C
  - Transport: -40…+85 °C
  - Long-term storage: -40…+70 °C
- Classification of climatic conditions acc. to IEC 60721:
  - Stationary use (IEC 60721-3-3): 3K5 (condensation and formation of ice possible)
  - Stationary use (IEC 60721-3-3): 3M7

- Classification of mechanical conditions acc. to IEC 60721:
  - Stationary use (IEC 60721-3-3): 3K5
  - Stationary use (IEC 60721-3-3): 3M7

Connection

- Connection type: plug connectors

Other

- Operating mode: continuous operation
- Display oriented, cooling slots must be ventilated vertically
- Degree of protection, built-in components (DIN EN 60529): IP40
- Degree of protection, terminals (DIN EN 60529): IP20
- Degree of protection with transparent cover: IP65
- Panel cut-out: 138x66 mm
- Permissible tolerance of panel cut-out: +0.5 / –0
- Screw mounting: with mounting brackets
- Torque screw mounting: 0.3 Nm ±10%
- Enclosure material: polycarbonate
- Flammability class: UL94V-0
- Dimensions (W x H x D): 144 x 72 x 35.6 mm
- Weight: < 180 g

Option „W“ data different from the standard version

(Only for remote mounting)
- Ambient temperatures:
  - Operating temperature: -40…+70 °C
  - Transport: -40…+85 °C
  - Long-term storage: -40…+70 °C
- Classification of climatic conditions acc. to IEC 60721:
  - Stationary use (IEC 60721-3-3): 3K5
- Classification of mechanical conditions acc. to IEC 60721:
  - Stationary use (IEC 60721-3-3): 3M7

(“W“ = factory setting

1) Recommendation: Devices mounted at 0° (display-oriented, cooling slots must be ventilated vertically). For devices mounted at an angle ≠ 0°, the max. working temperature is reduced by 10 °C for devices with a “W“ in the device name.

Option “W“:

The devices with the ending “W“ provide increased shock and vibration resistance. Due to a special varnishing, the electronic parts are better protected against mechanical loads and humidity.