

# Display FP200

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



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FP200

## 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.

## Device features

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

## Ordering information

| Supply voltage/frequency range $U_s$ | Power consumption | Type                 | Art. No.     |
|--------------------------------------|-------------------|----------------------|--------------|
| DC                                   |                   |                      |              |
| 24V/- 20...+25 %                     | typ. 3 W          | FP200                | B 9106 7904  |
|                                      |                   | FP200W <sup>1)</sup> | B 9106 7904W |

<sup>1)</sup> Device version Option "W" with increased shock and vibration resistance

## Accessories

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

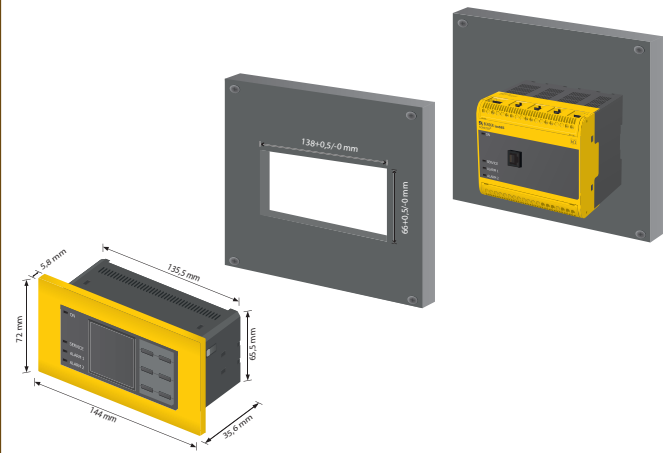
**Operating elements**



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

**Dimension diagram**

Dimensions in mm



**Technical data**

|  |  |
|--|--|
| <b>Insulation coordination</b>                             |  |
| Rated insulation voltage (IEC 60664-1)                     | 50 V   |
| Rated impulse voltage (IEC 60664-1)                        | 500 V  |
| Overvoltage category                                       | III  |
| Pollution degree   | 3  |
| <b>Supply voltage</b>                                      |  |
| Supply voltage $U_s$                                       | via iso685-S                                   |
| <b>Display</b>   |  |
| Graphic display  | 127 x 127 pixels, 40 x 40 mm                   |
| <b>LEDs</b>  |  |
| ON (operation LED)   | green  |
| SERVICE  | yellow   |
| ALARM 1  | yellow   |
| ALARM 2  | yellow   |
| <b>Interfaces</b>  |  |
| Interface/protocol   | Bender internal                                |
| Cable length   | ≤ 5 m  |
| REMOTE cable   | Patch cable min. CAT5e                         |
| <b>Environment/EMC</b>                                     |  |
| EMC  | IEC 61326-2-4; EN 50121-3-2; EN 50121-4        |
| Ambient temperatures                                       |  |
| Operation  | -40...+70 °C                                   |
| Transport  | -40...+85 °C                                   |
| Storage  | -25...+70 °C                                   |
| Classification of climatic conditions acc. to IEC 60721:   |  |
| Stationary use (IEC 60721-3-3)                             | 3K5 (except condensation and formation of ice) |
| Transport (IEC 60721-3-2)                                  | 2K3  |
| Long-term storage (IEC 60721-3-1)                          | 1K4  |
| Classification of mechanical conditions acc. to IEC 60721: |  |
| Stationary use (IEC 60721-3-3)                             | 3M4  |
| Transport (IEC 60721-3-2)                                  | 2M2  |
| Long-term storage (IEC 60721-3-1)                          | 1M3  |
| Area of application  | ≤3000 m NN                                     |

|  |  |
|--|--|
| <b>Connection</b>  |  |
| Connection type  | plug connectors  |
| <b>Other</b>   |  |
| Operating mode   | continuous operation   |
| Mounting   | display-oriented,<br>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 front cover        | IP65   |
| Panel cutout   | 138x66 mm  |
| Permissible tolerance of panel cutout                    | +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   |

|  |  |
|--|--|
| <b>Option "W" data different from the standard version</b> |  |
| Classification of climatic conditions acc. to IEC 60721:   |  |
| Stationary use (IEC 60721-3-3)                             | 3K5 (condensation and formation of ice possible) |
| Classification of mechanical conditions acc. to IEC 60721: |  |
| Stationary use (IEC 60721-3-3)                             | 3M7  |

**Option "W"**  
 Devices with the suffix "W" feature increased shock and vibration resistance. Due to a special varnishing, the electronic parts are better protected against mechanical loads and humidity.  
 When mounting the FP200W, it is necessary to secure the screws with thread-locking fluid since they could loosen when suffering high mechanical load.



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