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# Display FP200

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



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### 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

### Approvals



### Ordering information

Type	Supply voltage/frequency range $U_s$	Power consumption	Art. No.
FP200	DC 24 V/-20...+25 %	typ. 3 W	B91067904
FP200W <sup>1)</sup>			B91067904W

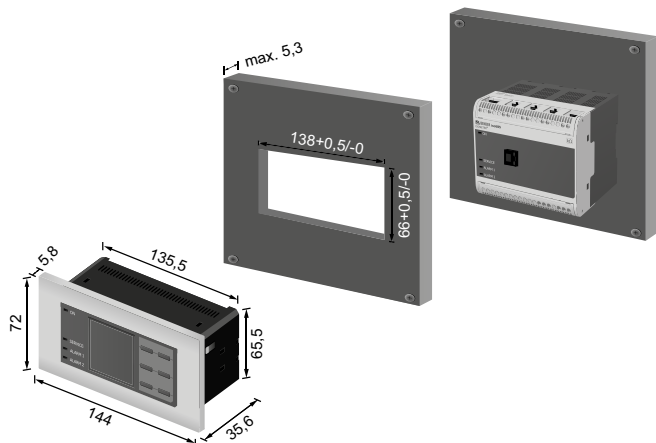
<sup>1)</sup> Device version Option "W" with increased shock and vibration resistance

### Accessories

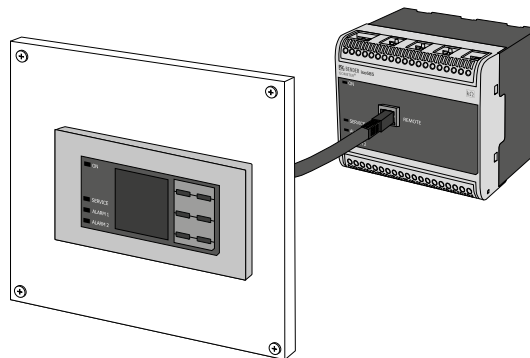
Description	Art. No.
FP200 mechanical accessories comprising: 2 screw attachments	B91067907
Patch cable CAT5e (without UL, temperature range 0...+60 °C) Included in the scope of delivery	B91067906
FP200 adapter for front panel mounting IRDH575	B91067905

### Dimension diagram

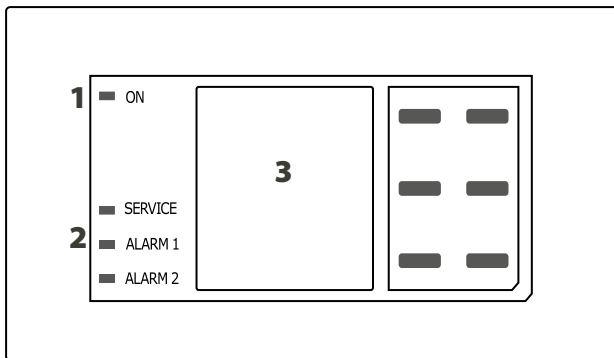
dimensions in mm



### Connection to iso685



**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
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**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
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**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**

(related to temperature and relative humidity):

Stationary use (IEC 60721-3-3)	3K22
Transport (IEC 60721-3-2)	2K11
Long-time storage (IEC 60721-3-1)	1K22

**Classification of mechanical conditions acc. to IEC 60721:**

Stationary use (IEC 60721-3-3)	3M11
Transportation (IEC 60721-3-2)	2M4
Long-term storage (IEC 60721-3-1)	1M12
Area of application	≤3000 m NN

**Connection**

Connection type	plug connectors
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**Other**

Operating mode	continuous operation
Mounting (0°)	display oriented, cooling slots must be ventilated vertically <sup>1)</sup>
Degree of protection, built-in components (DIN EN 60529)	IP40
Degree of protection, terminals (DIN EN 60529)	IP20
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
Documentation number	D00169
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)	3K23 (condensation and formation of ice possible)
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**Classification of mechanical conditions acc. to IEC 60721:**

Stationary use (IEC 60721-3-3)	3M12
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(\*) = factory setting

<sup>1)</sup> 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.



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Subject to change!  
The specified standards take into account the  
edition valid until 07.2023 unless otherwise  
indicated.