

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	typ. 3 W	FP200	B 9106 7904
24V/- 20...+25 %		FP200W ¹⁾	B 9106 7904W

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

Accessories

Description	Art. No.
FP200 mechanical accessories comprising: 2 screw attachments	B91067907
Front cover 144x72 transparent (for IP65)	B98060005
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
Front cover 144x96 transparent (for IP65)	B98060007

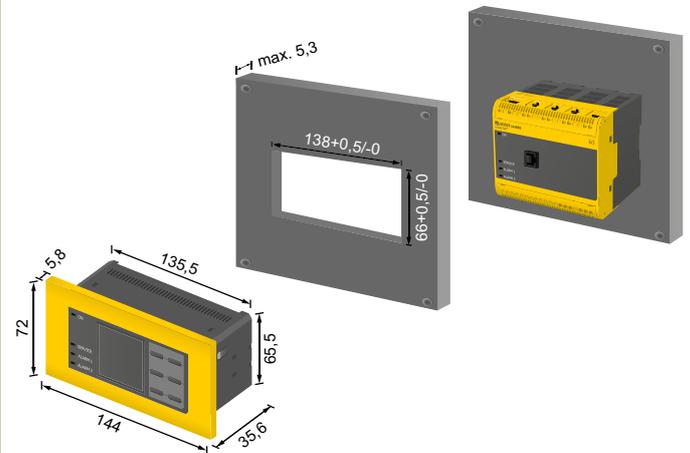
Operating elements



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

Dimension diagram

Dimensions in mm



Technical data

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

Rated voltage	50 V
Overtoltage 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
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 (except condensation and formation of ice)
Transport (IEC 60721-3-2)	2K3
Long-time storage (IEC 60721-3-1)	1K4
Classification of mechanical conditions acc. to IEC 60721:	
Stationary use (IEC 60721-3-3)	3M4
Transportation (IEC 60721-3-2)	2M2
Long-term storage (IEC 60721-3-1)	1M3
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 ¹⁾
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 (condensation and formation of ice possible)
Classification of mechanical conditions acc. to IEC 60721:	
Stationary use (IEC 60721-3-3)	3M7

() * = 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.



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