



# Frontpanel FP200(W)

前面板用于 ISOMETER® iso685-S 系列产品

Front panel for ISOMETER® iso685-S variants



前面板用于 ISOMETER® iso685-S 系列产品

本快速入门指南适用于：

| 定义  | 订货号        |
|---|------------|
| FP200                                     | B91067904  |
| FP200W                                    | B91067904W |
| <b>辅料</b>                                 |            |
| 2 组螺丝附件                                   | B91067907  |
| 透明盖板144x72 (用于IP65) *                     | B98060005  |
| 连接电缆CAT5e (无UL, 温度范围 0...+60 °C)<br>包括运输中 | B91067906  |
| FP200 适配器用于 前面 板安装IRDH575                 | B91067905  |
| 透明盖板144x96 (用于 IP65) *                    | B98060007  |

\* 当使用 „前盖144x72透明 (IP65)“ 时, 控制柜的开孔高度必须从 66 毫米增加到 68 毫米 (+0.7/-0毫米)。

## 使用目的

前面板FP200 是一款用于ISOMETER® iso685 操作的显示和操作单元。它的安装方式类似于前面板。只能与ISOMETER® iso685-S 系列结合使用。

## 安装

**电击危险!** 在安装设备前, 请确保整个系统已经断电。否则, 你可能会受到电击。此外, 电气装置可能被损坏, 设备可能会被破坏

**抬头! 财产损失的风险!** 当连接到线路电缆时, 确保主要设备电源关闭。当安装 FP200(W) 时, 请确保使用螺丝旋紧固定, 因为当有过重的机械负载时设备可能会松开。

**抬头! 财产损失的风险!** 仅将前面板连接到合适的传感器变体。错误的或不适当的连接会导致严重的故障或完全的前面板和传感器变体故障。

该电缆有特殊的温度范围0...60 °C · FP200(W) 的温度范围是-40...+70 °C。

Front panel for ISOMETER® iso685-S variants

This quick-start guide is valid for:

| Type   | Art.-No.   |
|--|------------|
| FP200  | B91067904  |
| FP200W   | B91067904W |
| <b>Accessories</b>   |            |
| 2 screw attachments  | B91067907  |
| Transparent cover 144x72(IP65) *   | B98060005  |
| Patche cabel CAT5e (without UL, Temperature range 0...+60 °C) included in the delivery | B91067906  |
| FP200 adapter for front panel mounting<br>IRDH575                                      | B91067905  |
| Transparent cover 144x96 (IP65)*   | B98060007  |

\* If the “transparent front cover 144x72 (IP65)” is used, the cutout in the control cabinet must be increased in height from 66 mm to 68 mm (+ 0.7 / -0 mm).

## Intended use

The FP200(W) front panel is a display and operator unit for the ISOMETER® iso685. It is installed as a front panel. The FP200(W) can only be used together with the ISOMETER® iso685-S variant.

## Safety instructions

**DANGER! Electric shock!** Before installing the unit, make sure the complete system is powered off. Otherwise you may get an electric shock. Furthermore, the electrical installation may be damaged and the device may be destroyed.

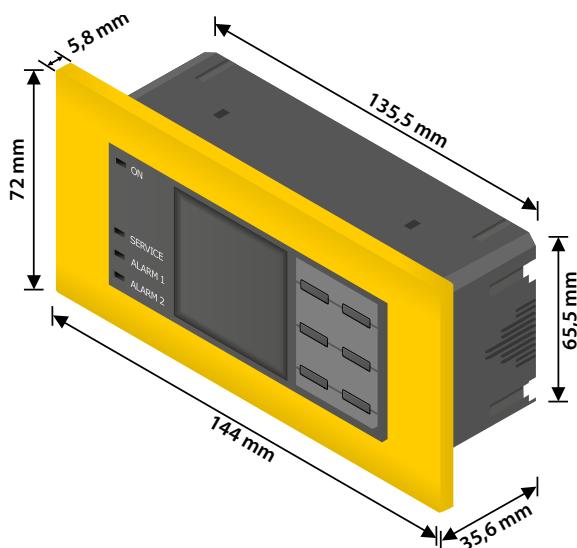
**CAUTION! Damage to property due to incorrect installation!** Make sure the main unit is powered down while it is being connected to the patch cable. When mounting the FP200(W) it is necessary to secure the screws with thread-locking fluid since they could loosen when suffering high mechanical load.

**CAUTION! Damage to property due to incorrect installation!** Connect the front panel to suitable sensor variants only. A faulty or improper connection can result in either serious malfunctions or complete front panel and sensor variant failure.

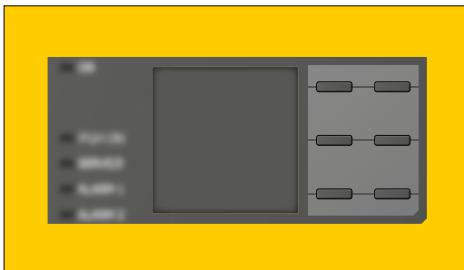
**i** The patch cable is specified for a temperature range of 0...60 °C while the FP200(W) has been approved for the range -40...+70 °C.

**Montage**

Maße / Dimensions



Frontansicht / Front view

**Mounting**

Rückansicht / Back view



## 在控制柜中安装 FP200(W) 并与 iso685-S-x 设备连接

### 第一个选择。

将 ISOMETER® iso685-S-x 设备安装在顶帽导轨上，用跳线 (RJ45) 与 FP200(W) 连接

**！头！材料损坏！** 不要强烈弯曲跳线，因为这可能会损坏电缆。确保在控制柜门的后面有至少 60 毫米的空间供 FP200(W) 和跳线使用。

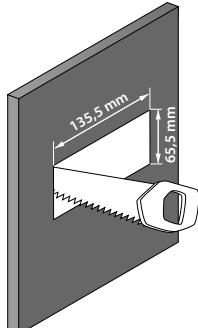
## Installation of an FP200(W) in a control cabinet and the connection to an iso685-S-x device

### Option 1:

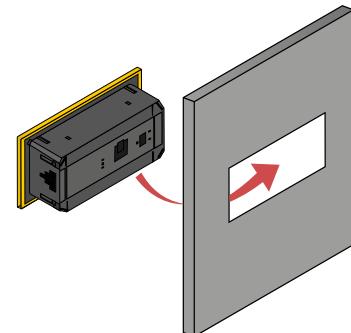
Mounting of the ISOMETER® iso685-S-x device on a DIN rail in the control cabinet and connection to the FP200(W) with a patch cable (RJ45).

**！** **Caution of damage to property!** Do not bend the patch cable too much as this may damage the cable. Ensure that a space of at least 60 mm exists at the back of the cabinet door for the FP200 and patch cord.

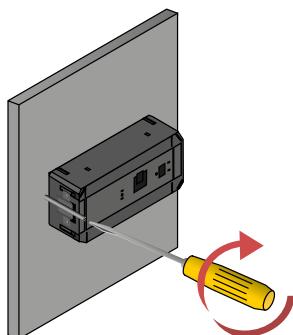
1.1



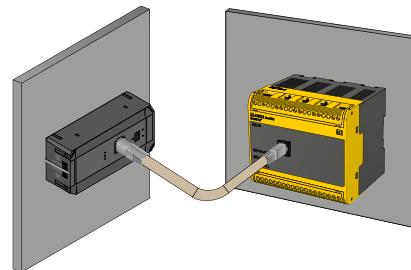
1.2



1.3



1.4



1. 在柜子中，截取足够的空间用于安装FP200 前面板。
2. 把 FP200(W) 放到开孔中
3. 从外壳后面插入安装的螺丝紧固件。旋紧螺丝，这样 FP200(W) 可以很牢固的安装在前面板上。
4. 插入电缆 RJ45，连接到 FP200 背面的远程连接插孔。插入另一个 RJ45 连接器到ISOMETER® iso685-S 系列前面的远程连接插孔。

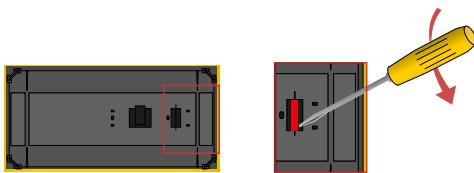
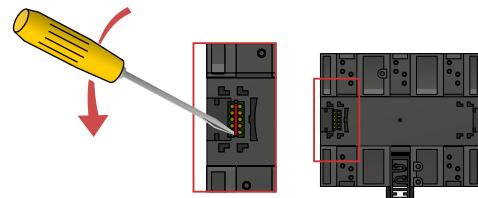
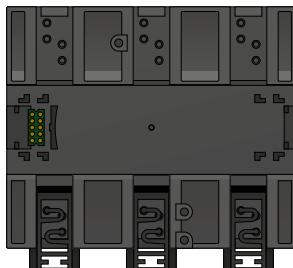
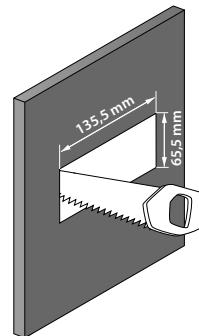
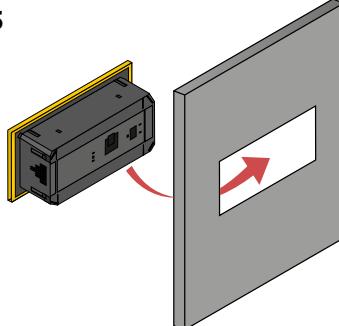
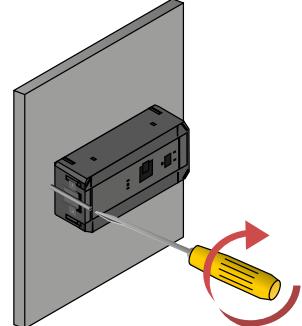
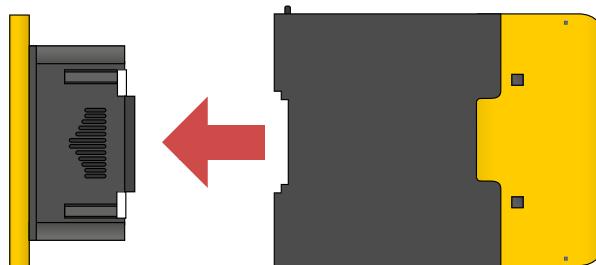
1. In the cabinet, cut out a section large enough for the FP200 front panel to slide in.
2. Place the FP200 into the cutout.
3. Insert the enclosed screw fasteners from behind the enclosure. Tighten the screws with a screwdriver so that the the FP200 is secured on the front panel.
4. Insert one of the patch cable RJ45 connectors into the REMOTE socket on the back of the FP200. Insert the other RJ45 connector into the REMOTE socket **on the front** of the ISOMETER® iso685-S variant.

**可能性2:**

将 ISOMETER® iso685-S-x 设备直接安装在 FP200(W) 前面板上。通过BB-Bus连接。

**Option 2:**

Mounting of the ISOMETER® iso685-S-x device directly on the FP200(W) front panel. Connection via BB bus.

**2.1****2.2****2.3****2.4****2.5****2.6****2.7**

1. 小心的拆除 FP200(W) 系列后面的接触盖板·把接触器暴露在外面。
2. 小心的拆除 ISOMETER® iso685-S 系列后面的接触盖板·把接触器暴露在外面。
3. 手动或者使用工具固定随货一起发送的 3 个安装夹(其中2个是独立包装的),如下图所示在 ISOMETER® iso685-S 版本
4. 的背面。在柜子中·截取足够的空间用于安装 FP200(W) 前面板。
5. 把 FP200(W) 放到开孔中。
6. 旋紧 FP200(W) 至合适的位置。
7. 把 ISOMETER® iso685-S 系列设备放到FP200的DIN 导轨。

## 运作

关于操作和菜单导航的描述,可以在相应的 ISOMETER® iso685-S 型号的手册中找到。

## 技术参数

### 绝缘协调性(IEC 60664-1/IEC 60664-3)

|                     |       |
|---------------------|-------|
| 额定电压                | 50 V  |
| 过电压类别 (OVC)         | III   |
| 额定脉冲电压              | 800 V |
| 额定绝缘电压              | 50 V  |
| 污染等级 用于设备外壳 的户外接触部分 | 3     |

### 电源电压

|        |                        |
|--------|------------------------|
| 电源电压Us | DC 24V(通过 iso685-S 版本) |
| 功耗     | 1.2 W                  |
| 显示     |                        |

### 液晶显示

液晶显示 ..... 127 x 127 像素, 40 x 40 mm

### LED灯

|                           |    |
|---------------------------|----|
| ON (工作LED灯)               | 绿色 |
| SERVICE, ALARM 1, ALARM 2 | 黄色 |

### 接口

|        |              |
|--------|--------------|
| 接口/ 协议 | 本德尔内部接口      |
| 电缆长度   | ≤ 5 m        |
| 远程控制电缆 | 线路电缆至少是CAT5e |

### 环境/EMC

|     |   |
|-----|---|
| EMC | IEC 61326-2-4; EN 50121-3-2; EN 50121-4 |
|-----|---|

### 环境温度

|      |              |
|------|--------------|
| 工作温度 | -25...+55 °C |
| 运输   | -40...+85 °C |
| 长期存储 | -40...+70 °C |

1. Remove the contact cover on the back of the FP200(W) to expose the contacts.
2. Remove the contact cover on the back of the ISOMETER® iso685-S variant to expose the contacts.
3. Fix the three mounting clips delivered with the device (two of them packed separately) manually or using a tool, as illustrated below at the back side of the ISOMETER® iso685-S variant.
4. In the cabinet, cut out a section large enough for the FP200(W) front panel to slide in.
5. Place the FP200(W) into the cutout.
6. Mount the screw attachment to the FP200(W) using a screwdriver.
7. Click the ISOMETER® iso685-S variant onto the DIN rail of the FP200(W).

## Operation

The description of the operation and menu navigation can be found in the manual of the corresponding ISOMETER® iso685-S variant.

## Technical data

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

|  |       |
|--|-------|
| Rated voltage .....                          | 50 V  |
| Oversupply category (OVC) .....              | III   |
| Rated impulse voltage (IEC 60664-1) .....    | 800 V |
| Rated insulation voltage (IEC 60664-1) ..... | 50 V  |
| Degree of Pollution .....                    | 3     |

### Supply voltage

|                         |                                |
|-------------------------|--------------------------------|
| Supply voltage Us ..... | 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, ALARM 1, 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 |





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