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Datasheet | OS-Display for high voltage module for electrostatic precipitators

The LCD-display can be used to show and set operating parameters of the high voltage module. The display is connected to the RS485 / Modbus interface of the high-voltage module. The high-voltage module supplies the display with the necessary 24V.

The display can be connected to existing and new systems.

Electrical Connections:

The display is connected to the HV module via a 4-wire cable.

Pin + and – :	24V
Pin A and B:	Modbus / RS485
Input voltage:	24 V (from HV module)
Max. power consumption:	3 W
Max. distance to HV module:	30 m

Cable Specification:

Use either a twisted paired or twisted quad paired (star quad) cable.

- E.g. standard telecommunication cable U72, F-YAY, J-YY, J-2Y(ST)-Y, A-2Y(L)2Y
- Minimal wire gauge = 0.25mm^2 (e.g. U72 1x4x0.6)
- A and B signal must be connected to the same twisted wire pair

Operation:

It is operated by the 3 buttons on the display.

As soon as the high-voltage module is supplied with power, the display switches on automatically.

The following operating values can be monitored and set:

- Temperatures
- HV voltage and power
- Operating hours and status messages (display only)

Mounting Instructions:

The display may only be installed in dry interior rooms.

Temperature range:	0°C to 40°C (32°F to 104°F)

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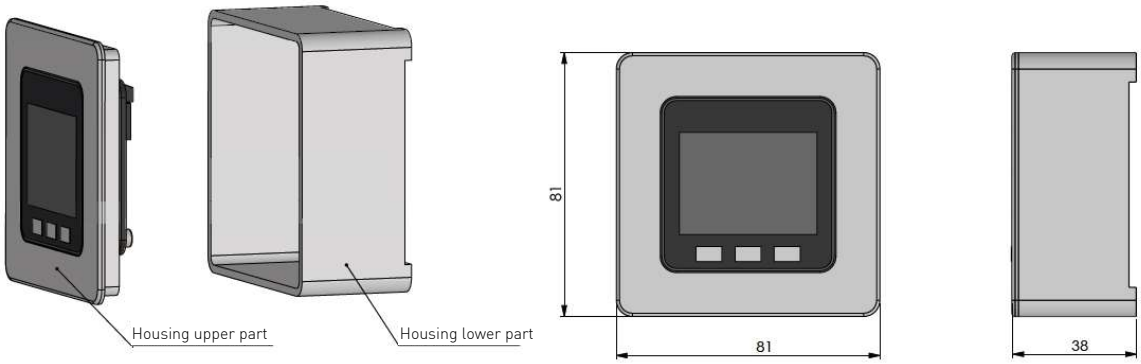
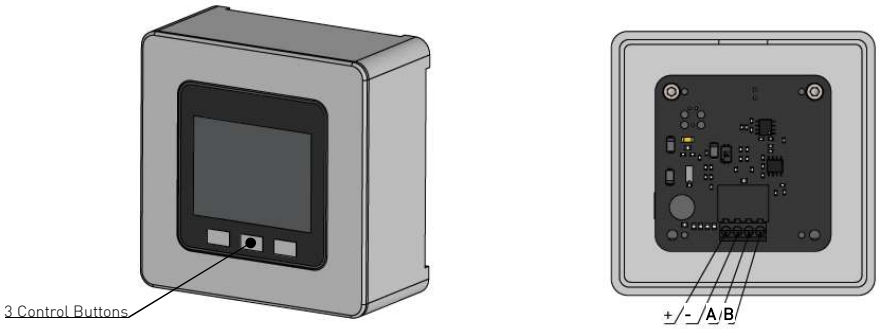
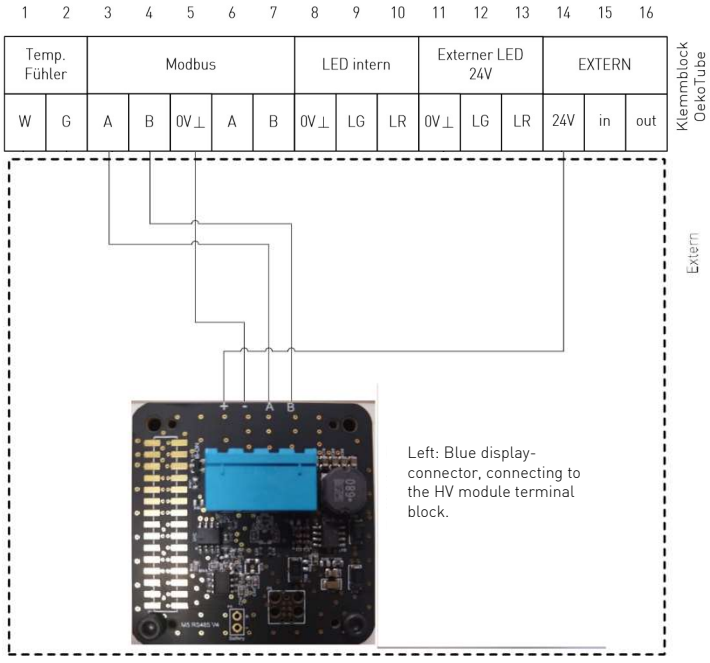
Dimension:





Connecting with HV module



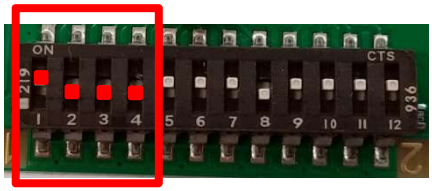
Filter terminal	Display terminal	Description
3 [A]	A	Modbus A
4 [B]	B	Modbus B
5 [0V]	-	0V ground for 24V supply
14 [24V]	+	24V extern: Supply for display

Dip-Switches at the HV module

The Dip-Switches are to be set as follows:

- die modbus address = 1 (Switch 1-3)
- force display as master (Switch 4)

Switch 1	Switch 2	Switch 3	Switch 4
ON	OFF	OFF	OFF



Note: If the display is set as master (switch 4 = OFF), the settings of switches 5-11 are ignored.

ATTENTION: If the display is wired incorrectly, the Oekotube filter will be destroyed!