

IF-800 VP

1 IF-800-VP

Thank you for using a terminal of the series IF-800 VP for recording access data

(VP= vandal-proof, degree of protection in accordance with DIN EN 50102 IK08).

Scope of delivery:

- Housing ring with IF-800 VP slave terminal with 5 m connecting cable
- Screw cover with Makrolon insert
- I/O controller board for controlling locking devices
- Terminal strip board
- Material for fastening

- Please check the completeness and condition of the shipment upon receipt.



2 Usage in Accordance with the Intended Purpose

IF-800 VP terminals are devices for controlling the access of persons as well as for controlling and monitoring locking devices. Any other use is not in accordance with the intended purpose and is therefore not permitted.

The internal hardware of the IF-800 VP is identical to that of the IF-800 slave terminal. For more information on connections and required settings, please refer to the IF-800 documentation no. 95-10287.

3 Function of the IF-800-VP Slave Terminal

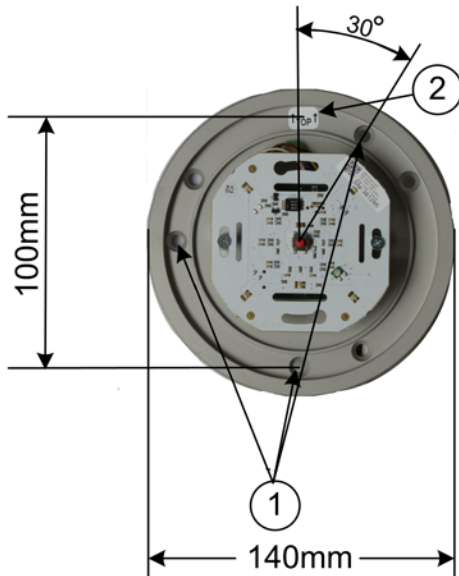
In general, IF-800 VP slave terminals are connected to a master terminal, an access manager or a terminal controller via an RS485 data cable. Terminals of the series IF-800 VP are designed for controlling the access of persons, who identify themselves with RFID credentials, as well as for controlling and monitoring locking devices.

We recommend:

- installing a separate, fuse-protected circuit.
- keeping a minimum distance of 30 cm between the slave terminal and other systems with RFID readers.
- keeping a distance of 10 cm between connecting cables and power lines.

4 Fastening

- Fasten the IF-800 VP to flat walls in the close vicinity of locking devices.



1	Recommended drill holes (6 mm) for dowel fastening.
2	TOP marking. Please read the note below.

NOTE

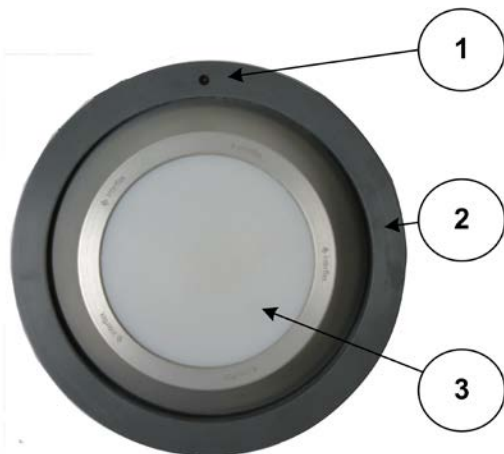
The TOP marking has to be exactly at the top. A deviation of only a few degrees can make it impossible to open the terminal housing.

4.1 Opening/Closing the Housing

Tools needed for opening and closing:

- Open: Vacuum lifting pad no. 75-700-0001, opening tool no. 75-700-0002
- Close: Vacuum lifting pad no. 75-700-0001

To open, place the opening tool over the IF-800 VP. Make sure that the marking on the opening tool is exactly at the top. Then, place the vacuum lifting pad on the IF-800 VP. Now, the cover of the terminal can be screwed open.



1	Marking on opening tool. This marking has to be at the top when the IF-800 VP is being opened.
2	Opening tool
3	Housing cover

4.1.1 Closing Procedure

- Check the flexibility of the latch lever. The lever must point downward and be slightly movable towards the middle. The pivoting range towards the inside may not be limited.
- Hand-tighten the screw cover.
- Place the vacuum lifting pad (order no.: 75-700-0001) onto the housing ring and screw the screw cover tightly onto the device.

4.1.2 Opening Procedure

The housing cover and housing ring are screwed together mechanically. A mechanical lock prevents them from being unscrewed by unauthorized persons.

- Attach the vacuum lifting pad to the housing cover (3).
- Place the opening tool (2) over the housing cover. Position the ring marking (1) centered at the top.
- Turn the vacuum lifting pad to the left until the housing cover can be lifted off.

5 Shielded Cables

To guarantee trouble-free operation, we recommend the use of shielded cables.

Operation, however, is also possible with unshielded cables. Data transfer problems must be examined on a case-by-case basis. Where necessary, a shielded cable must be used for the corresponding devices.

6 Installation

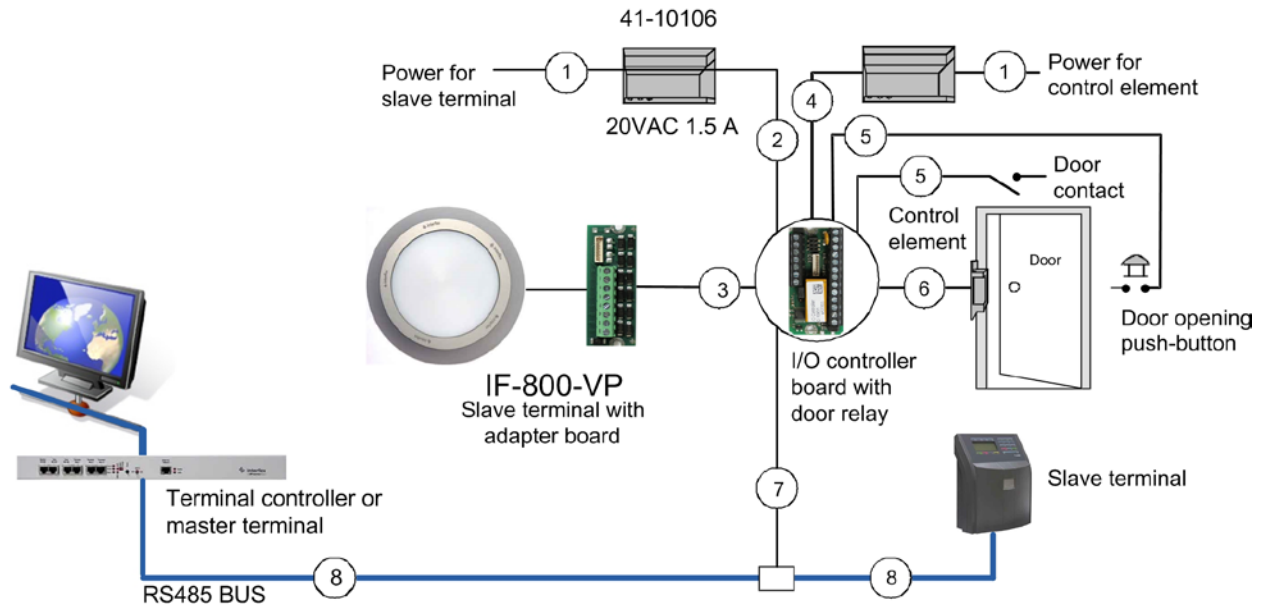
1. **Install all cables.** Use the right *cable types* ("*Electrical Connections*" on page 4).
2. **Make electrical connections.**
 - Fasten the terminal or I/O controller board into place in an appliance case/spacer (see note).
 - Connect the power supply.
 - Connect the data cables.
 - Connect the control elements and the feedback sensors, if available.
3. **Set the hardware address.**
4. **Install the IF-800 VP.**
At the installation site, fasten the IF-800 VP to a wall or pillar.
5. **Switch on the operating voltage.**
6. Perform **initial operation** and check the functions of the device.
 - Adjust the reader.
 - Install the front panel.

NOTE

If the I/O controller board is mounted into the appliance case, the terminal strip board is not required. However, there is then the danger of manipulation.

Recommendation: For security reasons, the I/O controller board should always be mounted in a secured area.

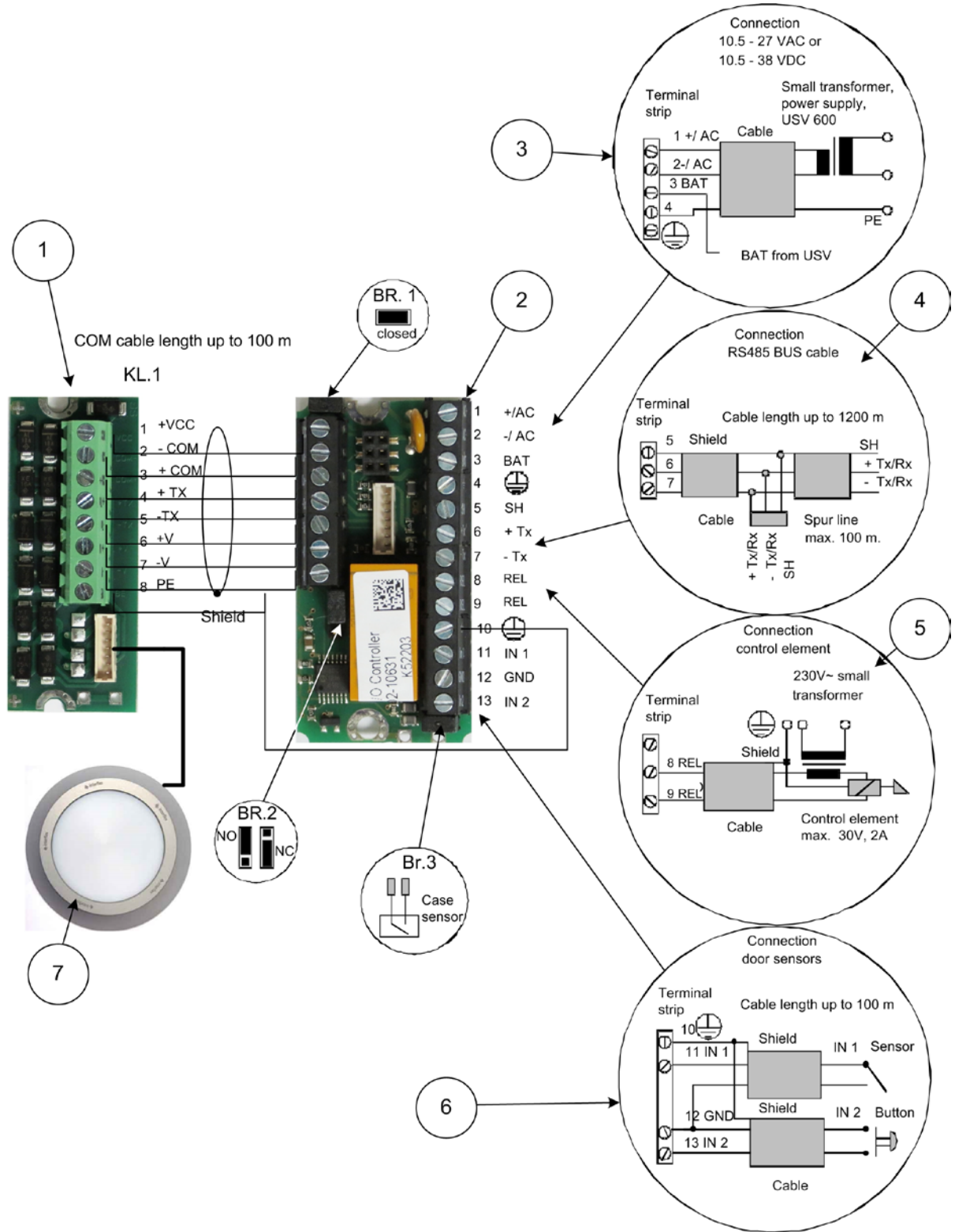
6.1 Electrical Connections



6.2 Function of the Cables and Cable Types

	Function of the Cable	Max. Length	Recommended Cable Type
1	Power supply 230 VAC to mains transformer 20 VAC 1.5 A (order number 41-10106)		NYM 3x 1.5 mm ²
2	Low-voltage cable		J-Y(ST) Y 4x2 x 0.6 mm ²
3	Shielded cable	100 m	J-Y(ST) Y 4x2 x 0.6 mm ²
4	Power supply to control element		J-Y(ST) Y 4x2 x 0.6 mm ²
5	Connection cable to floating sensors	100	J-Y(ST) Y 2x2 x 0.6 mm ²
6	Connection to control element (up to max. 30 V, 2 A)		J-Y(ST) Y 4x2 x 0.6 mm ²
7	Spur line from BUS to installation site.	100 m	J-Y(ST) Y 4x2 x 0.6 mm ²
8	RS485 BUS cable	1200 m	J-Y(ST) Y x2 x 0.6 mm ²

7 Connections



1	Terminal strip board	5	Circuit example: Control of a control element (door opener)
2	I/O controller board	6	Circuit example: Connection of the two inputs
3	Circuit example: Power supply	7	Circuit example: IF-800-VP terminal
4	Circuit example: RS485 connection		

BR.1	For operation as I/O controller board (relay 1), the jumper (bridge) is plugged in. For operation as an I/O expansion (relay 2), the jumper is removed.
BR.2	Normally open / Normally closed. This jumper is used to set the relay contact. Opening or closing contact.
BR.3	When the jumper is removed, an external anti-tamper switch can be connected.

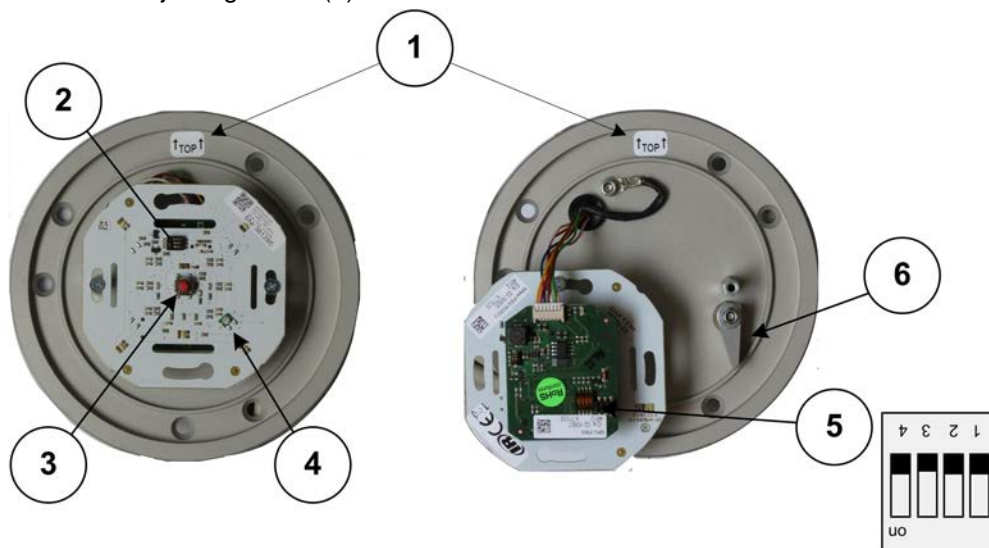
8 How to Set the Hardware Address

There is a 4-way DIP switch on the MPU board for setting the device address.

Switch	1	2	3	4
Address 1	OFF	OFF	OFF	OFF (not required if connected to a master terminal)
Address 2	ON	OFF	OFF	OFF
Address 3	OFF	ON	OFF	OFF
Address 4	ON	ON	OFF	OFF
Address 5	OFF	OFF	ON	OFF
Address 6	ON	OFF	ON	OFF
Address 7	OFF	ON	ON	OFF
Address 8	ON	ON	ON	OFF

9 Reader Adjustment

- After mounting the reader, adjust it using the adjustment set (order no. 75-99-0004).
- Turn the adjusting screw (4) until the field indicator reaches maximum.



1	Base plate with TOP marking
2	DIP switches for LEDs. This switch is factory preset and may not be changed.
3	Anti-tamper switch
4	Screw for adjusting the reader
5	DIP addressing switch
6	Latch lever. Please read the note below.

NOTE

- Check whether the latch lever can easily be moved. After installation, the latch lever must point downward.

10 Remote Placement of the I/O Controller Board

NOTE

To protect the I/O controller board against manipulation, it should be installed in a secured area.

It can, for example, be installed in a junction box together with the power supply. In such case, the terminal strip board must be connected directly to the terminal.

- A shielded cable should be used for the connection between the terminal strip board and the I/O controller board.
- The cable length may not exceed 100 m.
- Adhesive tape for fastening the terminal strip board in the appliance case is included in delivery.

11 Technical Specifications

Electrical Data	
Power Supply	12 - 24VAC/DC (measured directly at the terminal)
Power consumption	Max. 4 VA
Protection	Via PTC resistor
Interfaces	RS485, 9600/ 19200 baud(automatic configuration)
Reader	RFID reader, Mifare or LEGIC, depending on order
Read range	Up to 50 mm, depending on the type of credential used
Sensor inputs	2 floating sensors on the I/O controller board
Output	Relay, max. 30 V, 2 A
General Data	
Ambient temperature	-25°C to +55°C
Humidity	max. 95%, non-condensing
Product safety	EN 60950-1
Compatibility (EMC)	EN 300330-1/2 EN 301489-1/3
Degree of protection	IP65
Protection category	III
Degree of protection according to DIN EN 50102	IK 08
Dimensions	Ø140 mm x 34 mm
Weight	approx. 0.9 Kg
Material	Anodized aluminum (matt-finish or black according to order), plastic insert made of Makrolon

12 Disposal



Once its service life comes to an end, the device must be disposed of properly as electronic waste. The owner can dispose of the device himself or return it to the supplier.

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