

Access Terminal IF-800

1 Slave Terminal IF-800

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

Scope of Delivery:

- Slave terminal IF-800.
 - I/O controller board for controlling locking devices
 - Terminal strip board
 - Material required for mounting in a DIN appliance case
 - Peripherals CD
- Please check the completeness and condition of the shipment upon receipt.



1.1 Intended Use

Slave terminals of the series IF-800 are designed for recording time data, controlling access 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.

2 Electrical Installation



DANGER

Electric shock can cause severe injuries or death.

- Connection to mains voltage may therefore only be carried out by persons trained in electrical engineering.
- Initial operation may only be performed by persons instructed on accident prevention regulations (VBG 4).
- Interflex systems may only run on electrical installations which correspond to DIN VDE 0100. To guarantee trouble-free operation, we recommend carrying out the electrical installation according to the principles of a TN-S system, which means using separate neutral and protective earth conductors.
- Secure the power cable with a strain relief.
- The device must have an external separator.
- The device must be equipped with an external fuse protection with a maximum nominal current of 10 A.

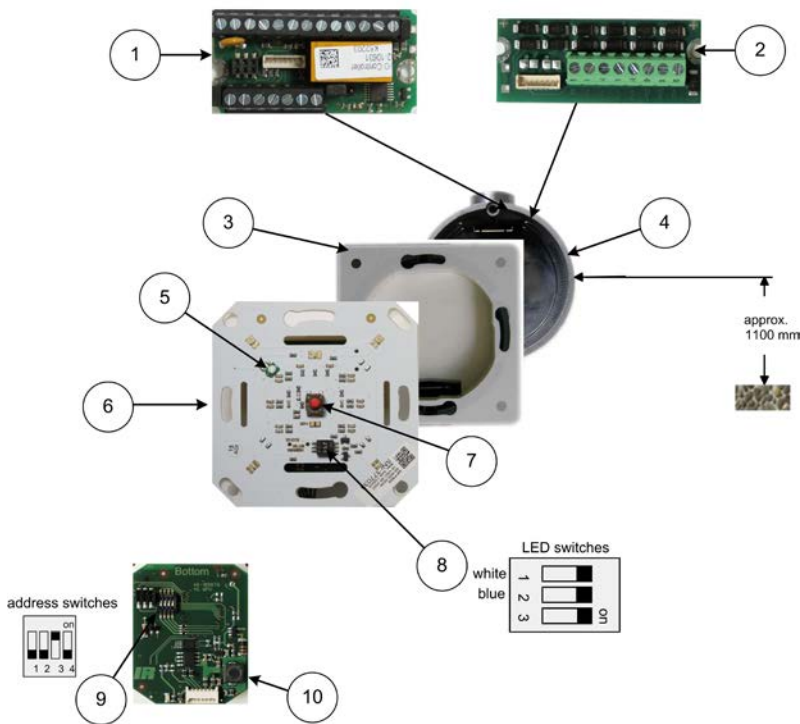
3 Function of the Slave Terminal

Access terminals of the series IF-800 are part of a time and attendance recording or access control system. They are preferably installed directly next to locking devices. In general, they are connected with an RS485 data cable to a master terminal, access manager or terminal controller. Terminals of the series IF-800 are designed for controlling the access of persons who identify themselves with RFID identification media, 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 Installation into an Appliance Case



1	I/O controller board	6	RFID reader
2	Terminal strip board	7	Anti-tamper switch
3	Protective cover	8	DIP switches for light emitting diodes
4	DIN appliance case	9	Address switch
5	Adjusting screw for reader adjustment	10	MPU board

The terminal strip board or the I/O controller board is mounted into the DIN appliance case using the adhesive tape included in the delivery.

5 Installation

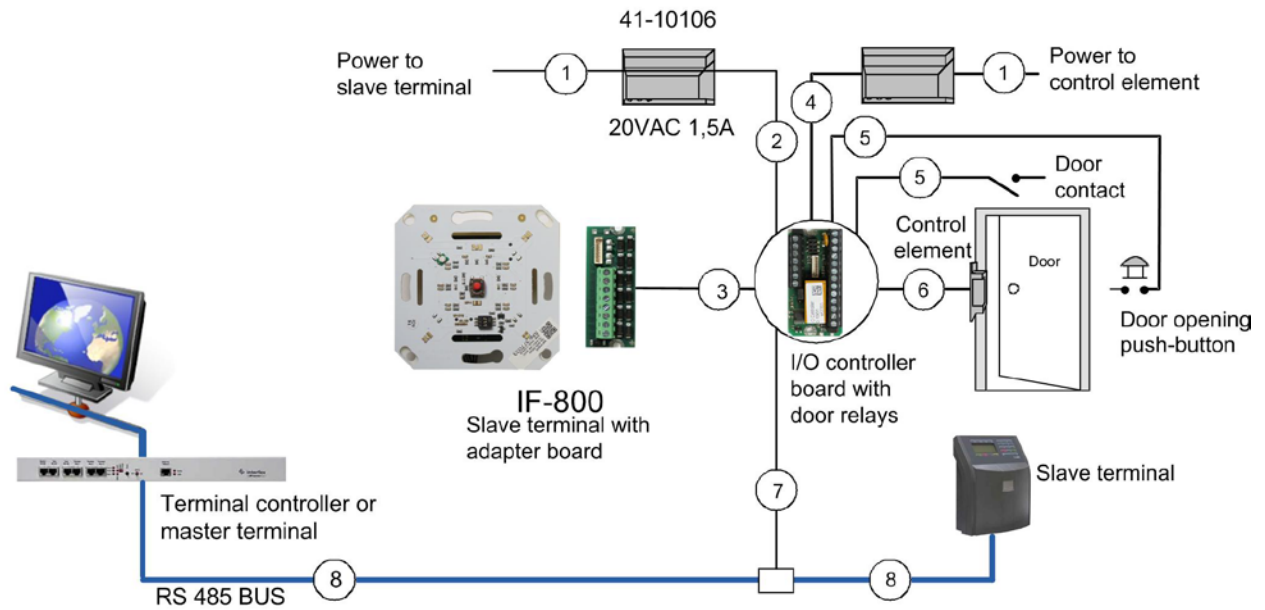
1. Install all cables. Use the right **cable types** ("**Function of the Cables and Cable Types**" on page 3).
2. Plaster the appliance case into the wall in such a way that the screws of the case are at the top and bottom.
3. **Making Electrical Connections**
 - Fasten terminal strip board or I/O controller board into the appliance case (see note).
 - Connect the power supply.
 - Connect the data cables.
 - Connect actuators and possible feedback sensors.
4. Set the hardware address.
5. **Installation of the Terminal**
Mount the IF-800 terminal into the appliance case so that the large cutouts on the reader are at the top and bottom.
6. Switch on the operating voltage.
7. **Initial operation** and device function check
 - Reader adjustment
 - Setting the LEDs
8. Mount front design panel so that the Interflex logo is at the top.

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.

5.1 Electrical Connections



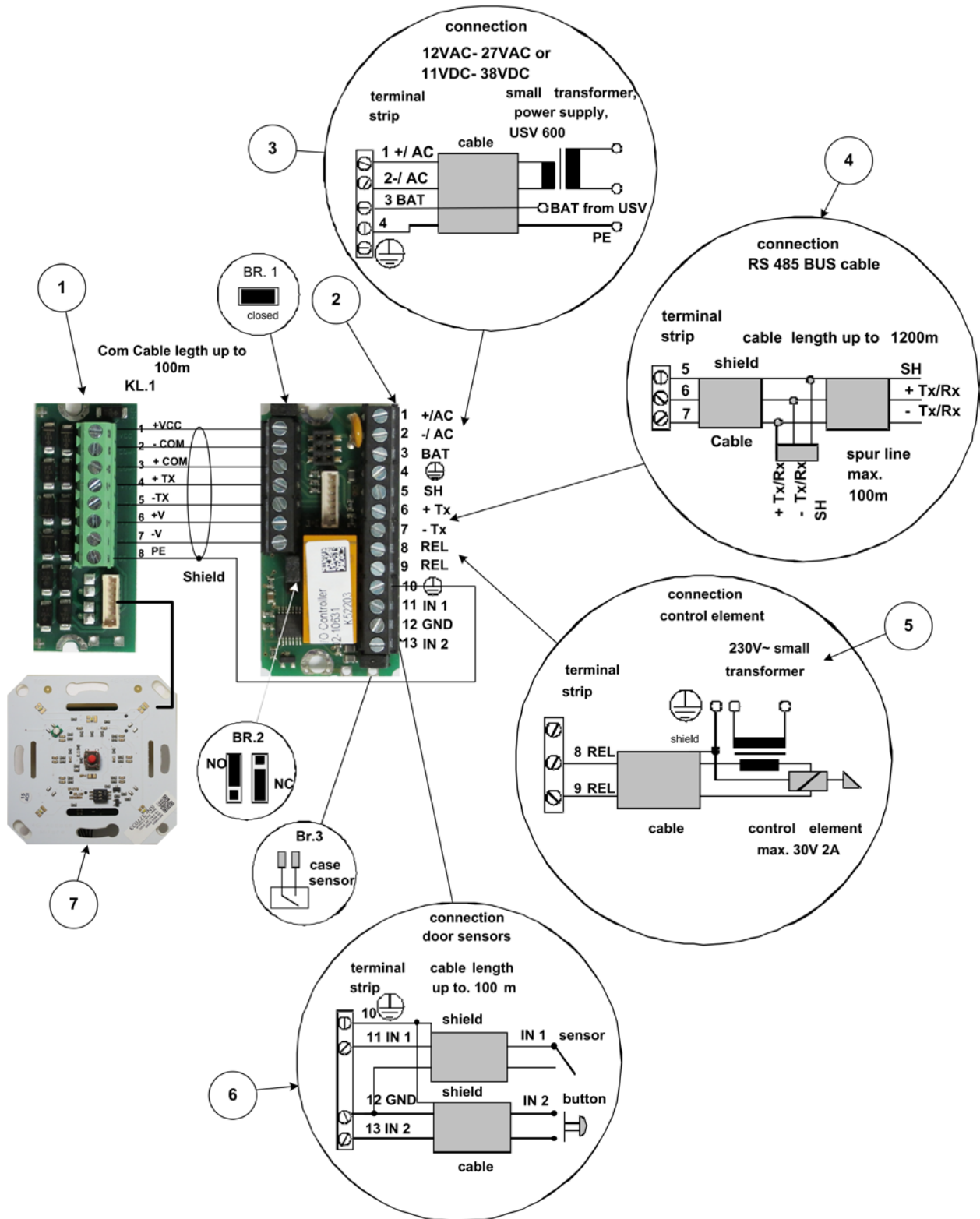
5.1.1 Function of the Cables and Cable Types

	Function of the Cable	Max. Length	Recommended Cable Type
1	Voltage supply 230 VAC to mains transformer 20 VAC 1.5A (order number 41-10106)		NYM 3 x 1.5 mm ²
2	Low-voltage cable		J-Y(ST) Y 4x 2x 0.6mm ²
3	Shielded cable from terminal strip board to I/O controller in secured area.	100 m	J-Y(ST) Y 4x 2x 0.6mm ²
4	Voltage supply to actuator.		J-Y(ST) Y 4x 2x 0.6mm ²
5	Connection cable to floating sensors.	100 m	J-Y(ST) Y 2x 2x 0.6mm ²
6	Connection to actuator (up to max. 30 V, 2 A)		J-Y(ST) Y 4x 2x 0.6mm ²
7	Spur line from BUS to installation site.	100 m	J-Y(ST) Y 4x 2x 0.6mm ²
8	RS485 BUS cable	1200 m	J-Y(ST) Y 4x 2x 0.6mm ²

NOTE

Install the power supply line in duplicate (one conductor pair each). The protective conductor should likewise be installed in duplicate, whereby the continuity wire can also be installed.

5.2 Connections



1	Terminal strip board	5	Circuit example: Control of an actuator (door opener)
2	I/O controller board	6	Circuit example: Connection of both inputs
3	Circuit example: Voltage supply	7	IF-800 Terminal
4	Circuit example: RS485 connection		

BR.1	For operation as I/O controller board (relay 1), the jumper is plugged in. For operation as an I/O expansion (relay 2), the jumper is removed.
BR.2	Normal open / Normal 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.

NOTE

A shielded cable with a core diameter of at least 0.6 mm² must be used for the connection between the terminal strip board and the I/O controller board.

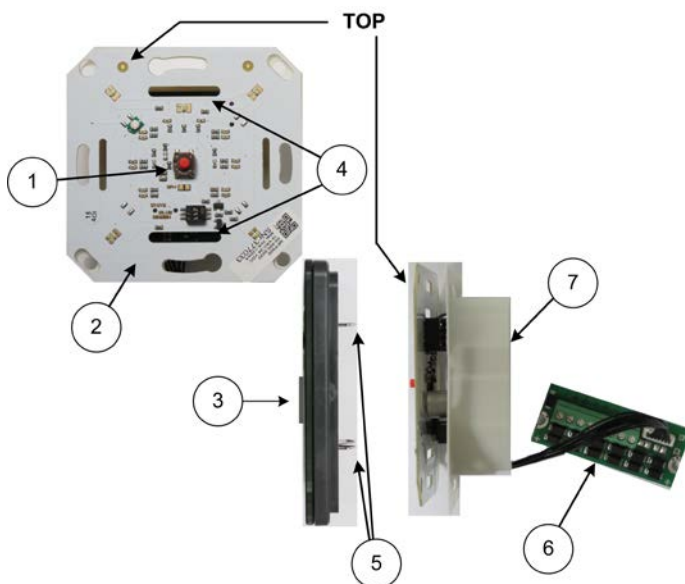
For security reasons, the I/O controller board should be mounted in a secured area.

5.3 How to Set the Hardware Address

There is a 4-button 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

5.4 Install the terminal.



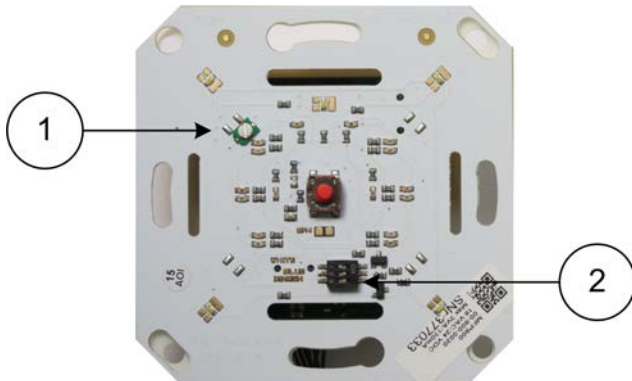
1	Anti-tamper switch
2	RFID board
3	Design kit
4	Large cutouts for latching the front panel.
5	Metal retaining clips for fastening in the appliance case
6	7-wire cable from the terminal to terminal strip board
7	Protective cover

NOTE

Make sure that the lettering TOP on the IF-800 terminal is always on top. Only then can the design kit (accessory) be properly installed.

5.5 Reader Adjustment

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



1	Adjusting screw
2	3-pin DIP switch for setting the LEDs

5.6 Setting the LEDs

- Set the function of the light-emitting diodes with the 3-pin DIP switches on the front panel according to the design kit chosen.

Design kit	white	blue	
Glass, white	OFF	ON	ON
Glass, black	ON	ON	ON
IF design	OFF	ON	ON
Third-party design	OFF	OFF	OFF

6 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 voltage supply. In such case, the terminal strip board must be connected directly to the terminal.

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

7 Technical Specifications

Power supply	
Low-voltage	12 - 27 VAC or 11 - 38 VDC (measured directly at the terminal)
Power consumption	Max. 4 VA
Fuse 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
Sensor inputs	4 floating sensors (2 per I/O controller board)
Output relays	2 relays with max. 30 V 2 A (1 per each I/O controller board)
User information	Buzzer; Green and red LEDs (white and blue are not visible)

General data	
Anti-tamper switch	Activated when front panel is removed
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
Dimensions (H x W x D)	71 x 71 x 27 mm
Weight	Approx. 0.35kg

8 Disposal



After proper operation, the device is to be disposed of properly as electronic scrap. The owner can dispose of the device himself or return it to the supplier.

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