Description of terminals for the standalone door control module

Terminal	Description
NC	relay output normally closed contact
C	relay output common contact
NO	relay output normally open contact
DATA/D1	*not used*
RSA	RS-485 bus terminal [OSDP]
RSB	RS-485 bus terminal [OSDP]
TMP	tamper output
+12V	+12 VDC power input
COM	common ground
CLK/D0	*not used*
IN1	door status input
IN2	request-to-exit input
IN3	*not used*
BELL	OC type output

Hereby, SATEL sp. z o.o. declares that the radio equipment type SO-MF5 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.satel.pl/ce

SATEL sp. z o.o. • ul. Budowlanych 66 • 80-298 Gdańsk • POLAND
tel. +48 58 320 94 00
www.satel.pl

SO-MF5

Keypad with MIFARE proximity card reader

so-mf5_sii_en 04/24

Quick installation guide

Full manual is available on www.satel.pl. Scan the QR code to go to our website and download the manual.

The SO-MF5 keypad can operate as:

- INT-SCR partition keypad in the INTEGRA alarm system,
- ACCO-SCR keypad with proximity card reader in the ACCO access control system,
- keypad with proximity card reader in systems of other manufacturers,
- standalone door control module.

Before you mount the keypad, program the settings required for the selected operating mode in the CR SOFT program. The exception is a keypad that is to operate in the ACCO NET system and is to be connected to the ACCO-KP2 controller using the RS-485 bus (OSDP protocol). The OSDP protocol is supported by the ACCO-KP2 controllers with firmware version 1.01 (or newer). In that case, you can program the required settings in the ACCO Soft program (version 1.9 or newer).

Installation

The device should be installed by qualified personnel.

Prior to installation, please read the full manual.

Disconnect power before making any electrical connections.

1. Open the keypad enclosure.
2. Connect the keypad to the computer. Use the USB / RS-485 converter (e.g. ACCO-USB by SATEL). Follow the instructions in the converter manual.

Do not connect more than 24 access control devices with the MIFARE card reader (SO-MF5, SO-MF3, CR-MF5 and CR-MF3) to the converter. The CR SOFT program may not be able to support more devices correctly.

3. Program the keypad in the CR SOFT program.
   3.1. Create a new project or open an existing project.
   3.2. Establish connection between the program and the device.
   3.3. Program the settings and upload them to the keypad.
4. Disconnect the keypad from the computer.
5. Run the cables to where you want to install the keypad. To connect the RS-485 bus, we recommend using a UTP cable (unshielded twisted pair). To make other connections, use unshielded straight-through cables.

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Description of terminals for the standalone door control module

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SO-MF5

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Prior to installation, please read the full manual.

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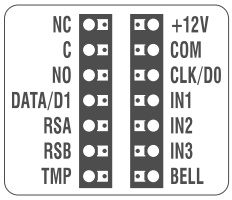
3. Program the keypad in the CR SOFT program.
   3.1. Create a new project or open an existing project.
   3.2. Establish connection between the program and the device.
   3.3. Program the settings and upload them to the keypad.
4. Disconnect the keypad from the computer.
5. Run the cables to where you want to install the keypad. To connect the RS-485 bus, we recommend using a UTP cable (unshielded twisted pair). To make other connections, use unshielded straight-through cables.

6. Place the enclosure base against the wall and mark the location of mounting holes.
7. Drill the holes in the wall for wall plugs (anchors).
8. Run wires through the opening in the enclosure base.
9. Use wall plugs and screws to secure the enclosure base to the wall. Select wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for plaster wall, etc.).
10. Connect the wires to the keypad terminals (see: “Description of terminals”).
11. Close the keypad enclosure.
12. If necessary, program the settings required for the keypad to operate in the selected system.

The ACCO Soft program in version 1.9 (or newer) enables programming of all the required settings. If it is to be used, you can skip the steps 2-4.

Description of terminals



Description of terminals for keypad in the INTEGRA system

Terminal	Description
NC	relay output normally closed contact
C	relay output common contact
NO	relay output normally open contact
DATA/D1	data [INT-SCR interface]
RSA	RS-485 bus terminal [OSDP]
RSB	RS-485 bus terminal [OSDP]
TMP	*not used*
+12V	+12 VDC power input
COM	common ground
CLK/D0	clock [INT-SCR interface]
IN1	NC type door status input
IN2	NO type request-to-exit input
IN3	*not used*
BELL	OC type output

Description of terminals for keypad in the ACCO system

Terminal	Description
NC	*not used*
C	*not used*
NO	*not used*
DATA/D1	data [ACCO-SCR interface]
RSA	RS-485 bus terminal [OSDP]
RSB	RS-485 bus terminal [OSDP]
TMP	*not used*
+12V	+12 VDC power input
COM	common ground
CLK/D0	clock [ACCO-SCR interface]
IN1	*not used*
IN2	*not used*
IN3	*not used*
BELL	OC type output

Description of terminals for keypad in other manufacturer’s system

Terminal	Description
NC	*not used*
C	*not used*
NO	*not used*
DATA/D1	data (1) [Wiegand interface]
RSA	RS-485 bus terminal [OSDP]
RSB	RS-485 bus terminal [OSDP]
TMP	tamper output
+12V	+12 VDC power input
COM	common ground
CLK/D0	data (0) [Wiegand interface]
IN1	programmable input [Wiegand interface]
IN2	programmable input [Wiegand interface]
IN3	programmable input [Wiegand interface]
BELL	OC type output

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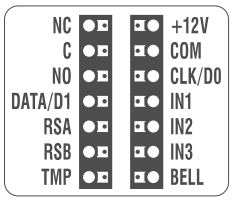
6. Place the enclosure base against the wall and mark the location of mounting holes.
7. Drill the holes in the wall for wall plugs (anchors).
8. Run wires through the opening in the enclosure base.
9. Use wall plugs and screws to secure the enclosure base to the wall. Select wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for plaster wall, etc.).
10. Connect the wires to the keypad terminals (see: “Description of terminals”).
11. Close the keypad enclosure.
12. If necessary, program the settings required for the keypad to operate in the selected system.

The ACCO Soft program in version 1.9 (or newer) enables programming of all the required settings. If it is to be used, you can skip the steps 2-4.

Description of terminals



Description of terminals for keypad in the INTEGRA system

Terminal	Description
NC	relay output normally closed contact
C	relay output common contact
NO	relay output normally open contact
DATA/D1	data [INT-SCR interface]
RSA	RS-485 bus terminal [OSDP]
RSB	RS-485 bus terminal [OSDP]
TMP	*not used*
+12V	+12 VDC power input
COM	common ground
CLK/D0	clock [INT-SCR interface]
IN1	NC type door status input
IN2	NO type request-to-exit input
IN3	*not used*
BELL	OC type output

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Description of terminals for keypad in the ACCO system

Terminal	Description
NC	*not used*
C	*not used*
NO	*not used*
DATA/D1	data [ACCO-SCR interface]
RSA	RS-485 bus terminal [OSDP]
RSB	RS-485 bus terminal [OSDP]
TMP	*not used*
+12V	+12 VDC power input
COM	common ground
CLK/D0	clock [ACCO-SCR interface]
IN1	*not used*
IN2	*not used*
IN3	*not used*
BELL	OC type output

Description of terminals for keypad in other manufacturer’s system

Terminal	Description
NC	*not used*
C	*not used*
NO	*not used*
DATA/D1	data (1) [Wiegand interface]
RSA	RS-485 bus terminal [OSDP]
RSB	RS-485 bus terminal [OSDP]
TMP	tamper output
+12V	+12 VDC power input
COM	common ground
CLK/D0	data (0) [Wiegand interface]
IN1	programmable input [Wiegand interface]
IN2	programmable input [Wiegand interface]
IN3	programmable input [Wiegand interface]
BELL	OC type output