Satel®

INT-TSI
Keypad

CE

Quick installation guide

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

⚠️ **The device should be installed by qualified personnel.**

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

Disconnect power before making any electrical connections.

This is a Class A product. In a domestic environment this product may cause radio frequency interference. The ferrite ring is delivered with the device. Use it to decrease the electromagnetic interference (see the installation instructions below).

The device is designed to be used only in the local area networks (LAN). It must not be connected directly to the public computer network (MAN, WAN). Connection to the public network may only be done through a router or xDSL modem.

The keypad is designed for indoor installation. The place of installation should be readily accessible to the system users.

The INT-TSI keypad can work in one of the following modes:

MASTER – default mode – the keypad is to be connected to the keypad bus of the control panel. The keypad is to be connected to the Ethernet if you want:

- the image from cameras to be displayed,
- the door station to be supported,
- the "Weather" widget to be used,
- the additional INT-TSI keypad to work in SLAVE mode.

SLAVE – the keypad is to be connected to the Ethernet. Communication with the control panel will take place by means of the keypad working in MASTER mode. The keypad working in SLAVE mode does not support the zones.

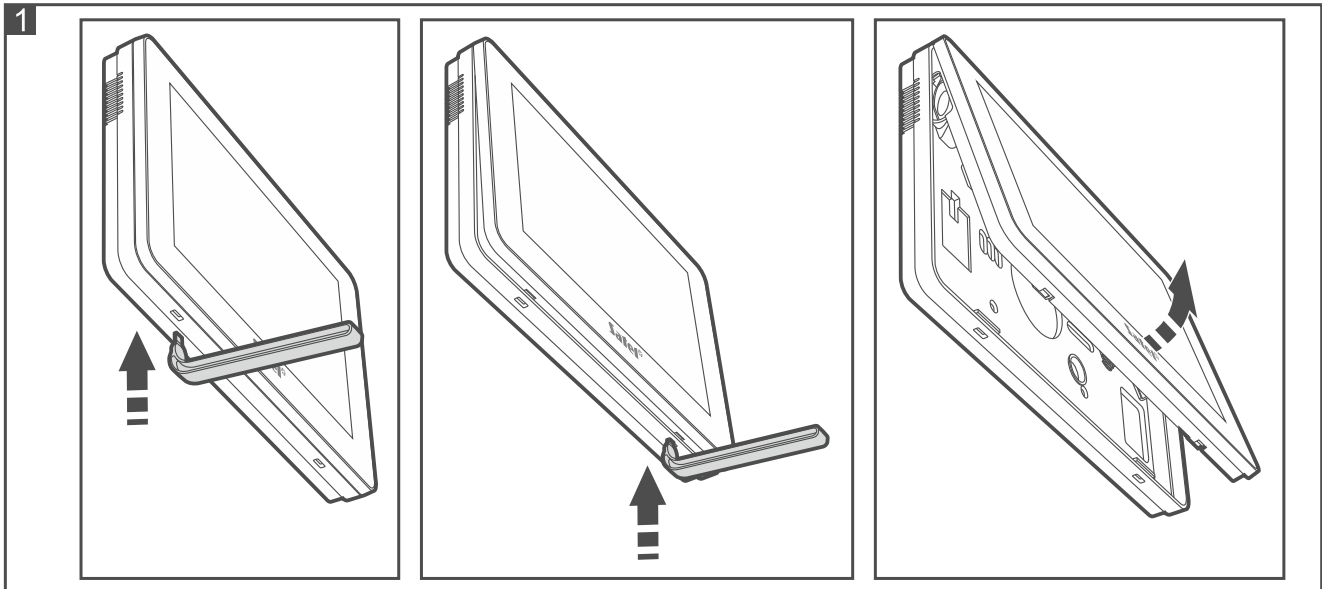There can be one additional keypad working in SLAVE mode to each keypad working in MASTER mode.

Description of terminals

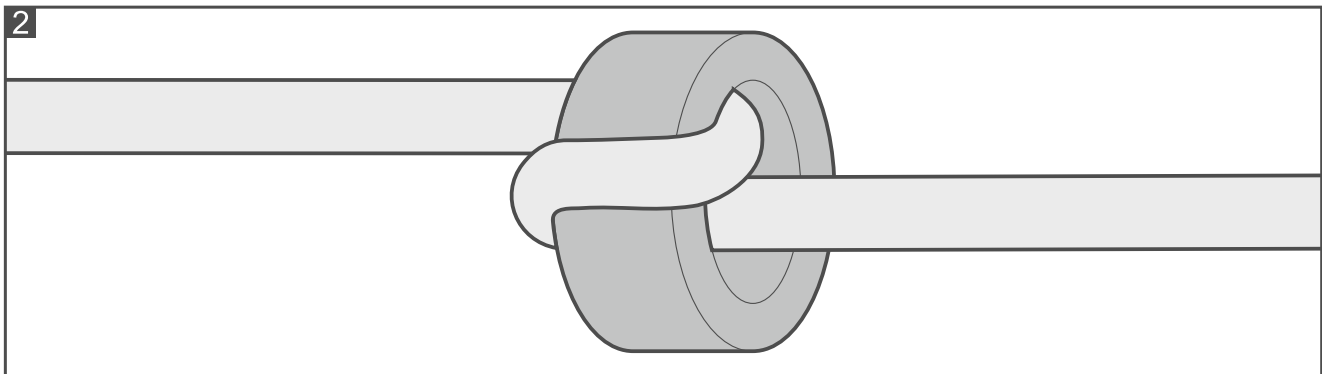|		
COM	-	common ground.
+12V	-	power supply input.
CKM	-	clock.

DTM - data.

Z1, Z2 - zones.

RSA, RSB - terminals intended for future applications (RS-485).

Installation of the keypad working in MASTER mode

1. Open the keypad enclosure (Fig. 1). The enclosure opening tool is included in the keypad delivery set.

2. Place the enclosure base against the wall and mark the location of mounting holes.
3. Drill the holes for wall plugs (screw anchors).
4. Install in the wall a junction box in which you will place the ferrite ring. Make sure it is placed as close as possible to the keypad.
5. Wind the cables around the ferrite ring (Fig. 2), but no more than 3 turns per cable.
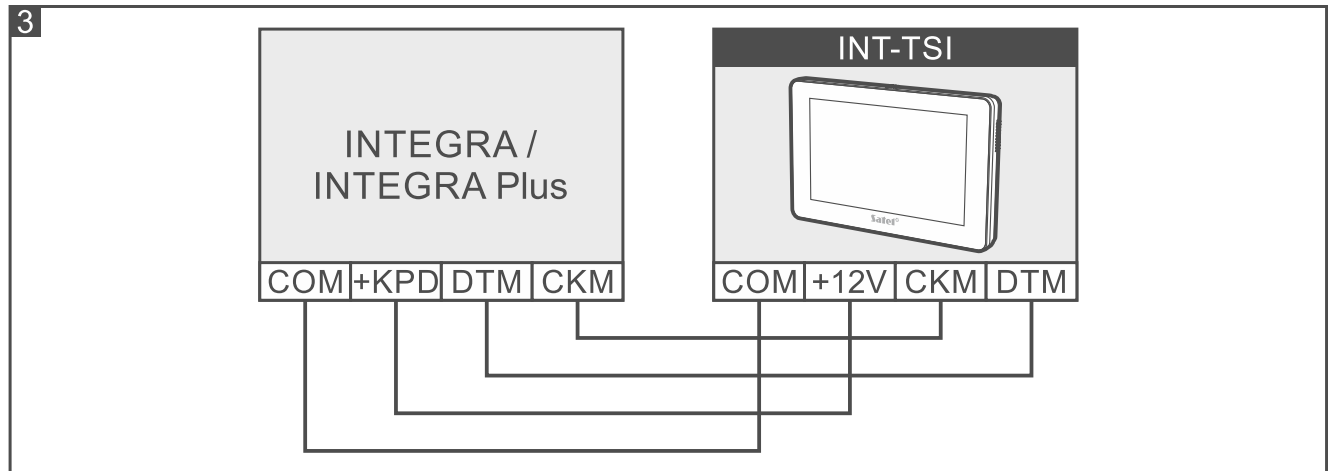

6. Place the ferrite ring inside the junction box.
7. Pass the cables through the opening in the enclosure base.
8. Using wall plugs (anchors) and screws, secure the enclosure base to the wall. Proper wall plugs must be selected for the type of mounting surface (different for concrete or brick wall, different for plaster wall, etc.).
9. Connect the wires of the control panel keypad bus to the DTM, CKM and COM terminals (Fig. 3). If you use the twisted-pair type of cable, remember that CKM (clock) and DTM (data) signals must not be sent through one twisted-pair cable.

i   *The bus wires must be run in one cable.*

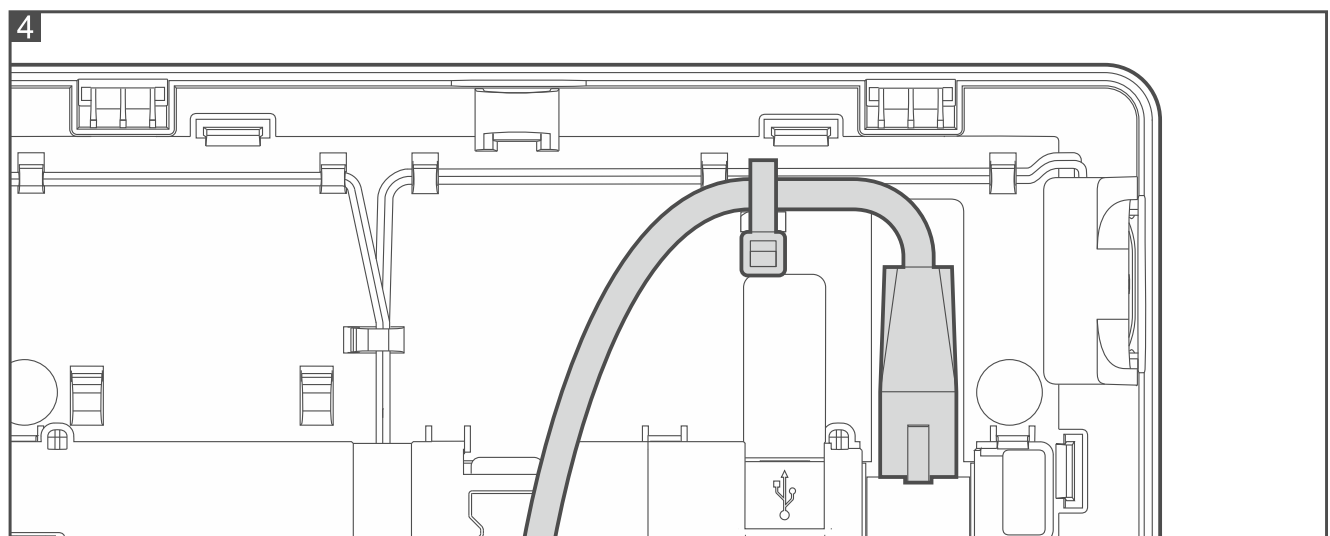   *The length of wires must not exceed 300 m.*

10. Connect the power wires to the +12V and COM terminals. The keypad can be powered from the control panel (Fig. 3), from an expander with power supply or from an additional power supply unit.

i   *The INT-TSI keypad cannot be powered from the +KPD output of the INTEGRA 24, INTEGRA 32 and INTEGRA 128-WRL control panels. Use the OUT1 or OUT2 output programmed as "41. Power supply".*

     A function is available in the keypad that allows you to check if the keypad is properly powered (see the INT-TSI keypad user manual).

11. If the keypad zones are to be used, connect the detector wires to the Z1, Z2 and COM terminals (same as to the control panel zones – see the control panel installer manual).

12. If you want to connect the keypad to the Ethernet, use a cable compliant with the 100Base-TX standard (same as used for connecting computer to the network). The cable must have the RJ-45 plug. It is recommended to use the flat network cable, because it is more flexible. Secure the cable using a cable tie (Fig. 4).

13. Place the front panel onto the catches and snap close the enclosure.

14. Turn the power on, set the address and identify the keypad (see the full installer manual).

Installation of the keypad working in SLAVE mode

1. Open the keypad enclosure (Fig. 1). The enclosure opening tool is included in the keypad delivery set.
2. Place the enclosure base against the wall and mark the location of mounting holes.
3. Drill the holes for wall plugs (screw anchors).
4. Install in the wall a junction box in which you will place the ferrite ring. Make sure it is placed as close as possible to the keypad.
5. Wind the cables around the ferrite ring (Fig. 2), but no more than 3 turns per cable.
6. Place the ferrite ring inside the junction box.
7. Pass the cables through the opening in the enclosure base.
8. Using wall plugs (anchors) and screws, secure the enclosure base to the wall. Proper wall plugs must be selected for the type of mounting surface (different for concrete or brick wall, different for plaster wall, etc.).
9. Connect the power wires to the +12V and COM terminals. The keypad can be powered from the control panel, from an expander with power supply or from an additional power supply unit.

    i *The INT-TSI keypad cannot be powered from the +KPD output of the INTEGRA 24, INTEGRA 32 and INTEGRA 128-WRL control panels. Use the OUT1 or OUT2 output programmed as "41. Power supply".*

    A function is available in the keypad that allows you to check if the keypad is properly powered (see the INT-TSI keypad user manual).

10. Connect the keypad to the Ethernet. Use a cable compliant with the 100Base-TX standard (same as used for connecting computer to the network). The cable must have the RJ-45 plug. It is recommended to use the flat network cable, because it is more flexible. Secure the cable using a cable tie (Fig. 4).
11. Place the front panel onto the catches and snap close the enclosure.
12. Turn the power on and activate the SLAVE mode (see the full installer manual).

The declaration of conformity may be consulted at www.satel.eu/ce