Satel®

INT-TSH

KEYPAD

CE

Quick installation guide

Full installation manual is available on **www.satel.eu**

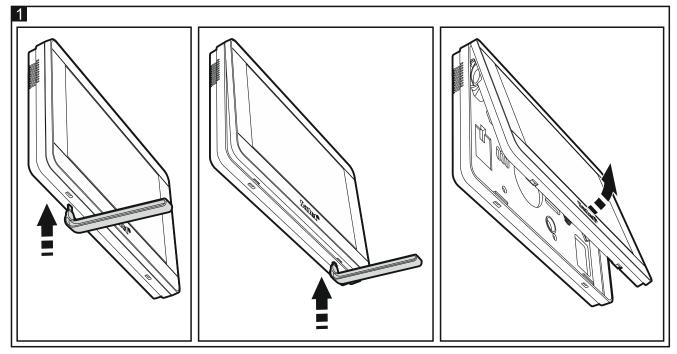⚠️ **The alarm system should be installed by qualified personnel.**

Disconnect power before making any electrical connections.

Warning

This is a Class A product. In a domestic environment this product may cause radio frequency interference in which case the user may be required to take adequate measures.

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

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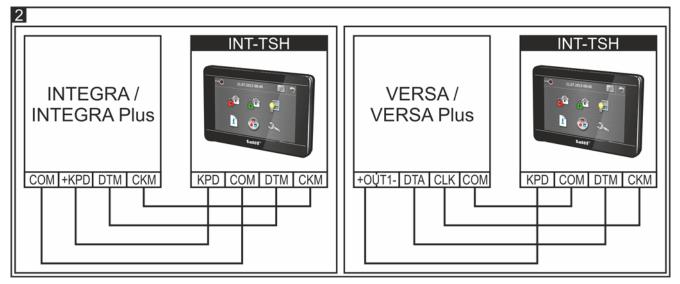

2. Place the enclosure base on the wall and mark the location of mounting holes.
3. Drill the holes for wall plugs (screw anchors).
4. Install in the wall a junction box to which cables will be connected and in which a ferrite ring will be placed.

ℹ️ *The purpose of the ferrite ring delivered with the keypad is to decrease the electromagnetic interference. Make sure that the ferrite ring is positioned as close as possible to the enclosure.*

5. Wrap the cables around the ferrite ring, but no more than 3 turns per cable.
6. Pass the cables through the opening in the enclosure base.
7. Using wall plugs (screw anchors) and screws, fasten the enclosure base to the wall.

8. Connect the DTM, CKM and COM keypad terminals to the appropriate terminals of the control panel communication bus (Fig. 2). It is recommended that the unshielded non-twisted cable be used for making the connection. 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. The wires must be run in one cable. The length of cables must not exceed 300 m.

9. Connect the wires to the terminals of additional zones, if any detectors are to be connected to them (the detectors are to be connected in the same way as to the control panel onboard zones). The zones are supported when the keypad is connected to INTEGRA / INTEGRA Plus control panel.

10. Connect the supply wires to the KPD and COM terminals. The keypad can be powered directly from the control panel, from expander with power supply or from a power supply unit.

i   *If the keypad is to be powered directly from the control panel, the keypad KPD terminal:*

  - *INTEGRA 64 / INTEGRA 128 / INTEGRA 64 Plus / INTEGRA 128 Plus / INTEGRA 256 Plus: can be connected to the +KPD terminal of the control panel,*
  - *INTEGRA 24 / INTEGRA 32 / INTEGRA 128-WRL: should be connected to the OUT1 or OUT2 terminal of the control panel (only high-current outputs have a sufficient current rating – program the output type as 41. POWER SUPPLY),*
  - *VERSA 5 / VERSA 10 / VERSA 15 / VERSA Plus / VERSA IP: should be connected to the "+" terminal of OUT1 or OUT2 high-current output of the control panel (only high-current outputs have a sufficient current rating).*

11. Place the front panel onto the catches, snap close the enclosure.

Description of terminals

KPD	-	power supply input.
COM	-	common ground.
DTM	-	data.
CKM	-	clock.
Z1, Z2	-	zones.
RSA, RSB	-	terminals provided for future applications (RS-485).

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