

01 Prepare the installation

T1 / Wi-Fi setup / confirmed four-device starter kit

Read this guide with the supplied device manuals. It adapts the T1 manufacturer instructions to the NETUS kit. NETUS App menu wording and final hardware variants must be verified during commissioning.



1 x T1 Main Panel



1 x Wireless Keypad



2 x OPTEX Wired PIRs

01 Check equipment and documents

Record panel, keypad and PIR labels. Confirm the supplied adapter, batteries and fixings. Remote Control RC-101 PLUS, Door/Window Sensor DWS-300 PLUS and wireless PIR are optional, not part of the four-device kit.

02 Plan locations and coverage

Provide 2.4 GHz Wi-Fi and the owner's NETUS App account. Plan panel, entry keypad, two PIR locations. Plan cables and regulated DC power for both OPTEX detectors. Test radio coverage for the keypad and optional wireless devices before fixing.

03 Check power before connection

The T1 manual specifies 12 V DC / 1 A for the panel, with a 110-240 V AC, 50/60 Hz adapter. Match the actual label, connector and polarity. Never connect mains to the panel's low-voltage terminals. Do not cut the adapter lead.

Outstanding before final sign-off: T1 N.C. input compatibility, usable zone configuration and PIR supply / backup; delivered keypad variant and NETUS App workflow.

Panel reference: 135 x 135 x 25 mm; ABS housing; -20 to +55 °C; up to 80% RH, non-condensing. Battery: 3.7 V / 900 mAh. Backup runtime: TBC.

02 Mount & power the devices

Standard kit / main panel, wireless keypad and two OPTEX wired PIRs

01 Main panel

Choose a dry indoor location with reliable Wi-Fi and radio coverage. Check for concealed services before drilling. Use the matching mounting bracket and secure the panel so its tamper arrangement operates correctly. Insert the matched adapter's barrel plug and press the panel power button. Confirm its power indicator illuminates.

02 Wireless keypad

For the supplied KP-A1 type: use 3 x 1.5 V AAA / LR03 batteries with correct polarity; remove any insulating strip. Mount the rear cover at a dry, accessible entry / exit point, fit the front cover and secure its bottom screw. Verify the delivered variant against its manual. This procedure uses battery operation.

03 OPTEX FLX-S-ST wired PIR 1 and PIR 2

Mount indoors at 2.0-3.0 m; the OPTEX coverage drawing recommends 2.4 m. Select wide coverage (12 m / 85 degrees) or narrow coverage (18 m / 5 degrees) using the lens configuration in the matching installation manual. Route power, alarm and tamper wiring before final fixing. Keep detectors clear of direct sunlight, heat sources and air outlets.

04 Power-up and walk test

Supply 9.5-16 V DC with correct polarity. Current is 8 mA normal / 11 mA maximum per detector at 12 V; allow 22 mA maximum for the pair plus cable loss and other loads. Wait approximately 60 seconds while the green LED blinks, then walk-test each area and verify the panel event. Alarm output duration is 2.0 +/- 0.5 seconds. These wired PIRs do not use the wireless detector battery / sleep procedure.

OPTEX FLX-S-ST: normally closed alarm and cover-tamper contacts, each rated 24 V DC / 0.1 A maximum (resistive). The supplied brochure is not a terminal-by-terminal installation manual; obtain the matching wiring instructions.

03 Connect & configure

NETUS App / accessory enrolment / keypad access

01 Pair the panel over Wi-Fi

Connect the phone to the site's 2.4 GHz Wi-Fi. Power the panel, then hold the panel * key for 5 seconds; confirm the Wi-Fi status indicator flashes quickly. In NETUS App, use Add Device and select the Wi-Fi alarm category. Enter the Wi-Fi password, finish pairing and name the panel / room. These menu names follow the manufacturer flow; verify the NETUS App implementation on site.

02 Check and enrol wireless accessories

Check the existing list first. On the panel touch keypad, enter the current panel password followed by *1# (factory password 1234), or open Accessories and Add in the app. The included OPTEX PIRs are wired and are not enrolled by radio. For an optional wireless PIR, use its rear learning button, not its tamper switch. For an optional remote, press a button; for a door sensor, separate the magnet. One beep means success, two already enrolled and three storage full. Exit using the app close control; enrolment times out after 30 seconds.

03 Enrol and secure the keypad

While the panel is in accessory enrolment mode, press SOS on the KP-A1 keypad to send its enrolment signal; confirm one panel beep, then exit enrolment. To operate: press * to wake, enter the user code, then press the closed lock (Away), house (Home) or open lock (Disarm). Factory user / admin codes are 1234 / 123456; change both before handover.

KP-A1 code change: wake with *, enter current admin code then #. For admin: press 9, new 6-digit code, #. For user: press 8, new 4-digit code, #. A successful command gives one beep. Change the panel's disarm code separately in NETUS App and test both devices.

04 Verify wired zone behaviour before use

T1 documentation identifies IN1 as a 24-hour zone and IN2 as Normal. Do not put an occupied-room PIR on IN1 unless that behaviour is intentional and accepted. Confirm whether the delivered firmware can reassign wired zones; do not assume Home bypass or entry delays apply. Verify N.C. contact support and test both PIRs in Away, Home and Disarm.

Avoid destructive panel commands: password*0# deletes enrolled accessories; password*3# restores defaults. Use only as part of an authorised reset and recommissioning procedure.

04 Wired PIR integration

Included OPTEX FLX-S-ST / interface checks before connection

Before wiring: isolate the adapter and disconnect the backup battery in accordance with the manufacturer's procedure. Verify dead before touching terminals. Reconnect only after polarity, contact type and load checks.

T1 TERMINAL REFERENCE

IN1 / IN2	Wired sensor inputs. Manual labels IN1 as 24-hour and IN2 as Normal; verify the configured zone behaviour.
GND	Sensor contact return / supply negative, as indicated in the panel diagram.
SPK+ / SPK-	Dedicated wired siren positive / negative; device current must not exceed 500 mA.
VCC / GND	Wired-accessory supply / return; voltage and total available current: TBC.

Included OPTEX pair: use separate power and dry alarm-contact circuits. OPTEX alarm contacts are N.C.; the T1 manual places a sensor contact between IN1 / IN2 and GND but does not establish N.C. input compatibility. Verify compatibility and zone assignment before connecting. Do not add EOL resistors or PEU modules without a confirmed T1 requirement. Tamper-loop termination remains TBC.

Accessory power: verify VCC is within 9.5-16 V DC and can supply both PIRs plus other loads. If unsuitable, specify an approved regulated supply / interface with the installer. Backup for both PIRs must be established and tested; the panel battery alone does not prove detector backup.

DWS-300 PLUS door/window sensor: fit the transmitter and magnet in their marked alignment. Confirm the permitted gap and battery from the DWS-300 PLUS instructions; the generic T1 door-sensor diagram is not sufficient to establish this model's gap. Test opening, closing and tamper at the final location.

RC-101 PLUS remote: enrol as on page 3; name it for the authorised user. Test arm, disarm and any enabled emergency function under controlled conditions.

05 Commission & hand over

Complete and retain this record with the installation documents

Identity / locations	Record every model, serial number and installed location; confirm all four kit devices.
PIR 1 / PIR 2	Verify DC voltage at each OPTEx PIR, N.C. input compatibility and independent detection; record each assigned zone.
Home / Disarm	Test both wired zones in Home, Away and Disarm. Confirm no unintended 24-hour alarm; record any supported delays.
Keypad / options	Test keypad commands and new codes; test each optional device if fitted.
Internal siren	Trigger a controlled alarm and confirm the panel's built-in siren operates and silences on disarm.
Power failure	Remove adapter power safely; record panel and wireless operation. Record wired-accessory behaviour; restore and check charging.
Network loss	Interrupt site internet under control; record local alarm behaviour and unavailable app functions. Restore and verify reconnection.
Tamper / notifications	Test fitted tamper functions and owner notification permissions; restore all covers.

TROUBLESHOOTING

Panel offline	Check adapter, 2.4 GHz Wi-Fi, password and signal. Re-enter pairing with the documented 5-second hold of *; avoid destructive reset commands.
No sensor event	For OPTEx: check DC supply, 60-second warm-up, N.C. circuit and zone. For optional wireless PIR: check battery and enrolment.
No app alert	Check internet, app / phone permissions and event log. Repeat a controlled trigger test.

Installer / date _____ Owner _____

Open items / test results _____

Handover: demonstrate modes and Home coverage, secure access codes, explain power / network limitations and battery maintenance, and supply the final equipment list and matching manuals. Do not mark complete while a required installation check or test remains unresolved.