APEX

/ 2026 EDITION · NOVEMBER

Product Catalogue

Wall controls, climate and DIN-rail automation for homes, villas and hotels.

CAN-BUS · IP · Z-WAVE

Control at Your Fingertips



/ ABOUT SMARTAPEX

Engineered in-house, from circuit board to driver.

SmartAPEX designs wall controls, climate control and DIN-rail automation for homes, villas, hotels and offices. Our own engineers develop the hardware, the firmware and the integration drivers, so every product is supported end to end.

EXPERIENCE

Designing home and building automation since 2013.

INTERNATIONAL

Headquartered in Madrid, Spain, working with dealers and integrators in international markets.

RESEARCH & DEVELOPMENT

Hardware, firmware and drivers built by our own team, with regular releases for products already installed.

AFTER-SALES

A dealer portal with firmware, drivers, parameter templates and manuals, and direct technical support.

Partner with SmartAPEX

A dealer programme for integrators, installers and distributors, with project consultation and technical support.

smartapex.es/dealer



Why SmartAPEX?

What installers and project companies gain when every wall control, module and gateway comes from one platform.

01	Designed for integration, built for reliability	SDDP discovery for Control4, parameter templates and QuickApps for Fibaro and Yubii, and direct CAN-BUS binding between devices.
02	Flexible wired and wireless solutions	CAN-BUS for new builds, Z-Wave for retrofits, IP in the panel, all on the same 86 × 86 mm faceplates.
03	One wall device, many jobs	The same Z-Wave thermostat becomes a fan-coil thermostat, a thermostat with lights, an IR air-conditioner controller or a floor-heating thermostat.
04	Professional technical support	Direct access to the engineers behind the products, plus a dealer portal with firmware, drivers and manuals.
05	Long-term product availability	One platform across generations, with firmware updates that keep installed devices current.

FOR THE INSTALLER

Install faster

One CAN pair links every device; modules are found automatically on the network.

FOR THE PROJECT

Fewer site visits

Firmware is updated from a browser or the Z-Wave controller, and homeowners change their own schedules.

FOR THE BUSINESS

Lower after-sales cost

Fewer call-outs, fewer parts in the panel and one supplier for the whole system.

One platform. Three ways to connect.

Every SmartAPEX wall control and DIN-rail module is built on the same platform. Choose a wired bus, an Ethernet network or a wireless mesh to suit each project.

CAN-BUS

Wired backbone

Keypads, thermostats and DIN-rail modules on one bus. Inputs bind directly to relays, DALI groups and thermostats, and firmware updates travel over the same pair.

IP

Network & integration

Relay, DALI and Mini IP gateways on Ethernet. SDDP discovery for Control4, a built-in web panel, and local firmware updates that reach every connected CAN device.

Z-WAVE

Wireless retrofit

Z-Wave 800 keypads with and without neutral, and a thermostat family with five models, from fan-coil to floor heating. Firmware updates over the air through the controller.

01 Wall controls
02 Climate
03 DIN-rail modules
04 Gateways
05 Software
06 Model index



/ SECTION 01

Wall controls

Keypads and thermostats on one 86 × 86 mm platform, in Crystal glass or Classic metal, for CAN-BUS or Z-Wave.

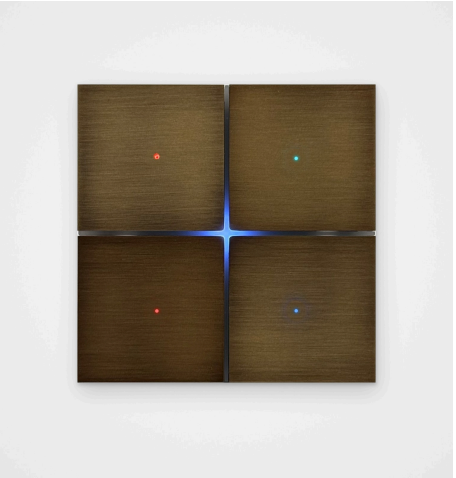
CAN-BUS

CAN Keypad

The wired choice for new builds: one CAN pair links every keypad, relay and thermostat. Each key takes a short, long, double or triple press, and binds straight to relays, DALI and thermostats.



Crystal Glass · 1–5 buttons



Classic Metal · 4 buttons

AC · 4 RELAY OUTPUTS

APX-[Series]-nCA

100–240 VAC, lighting and curtains

DC · 2 DRY-CONTACT INPUTS

APX-[Series]-nCD

12–24 VDC, approx. 100 mA

OUTPUTS · NCA	4 relay-switched live outputs, 2 A resistive each, 8 A combined; internal 10 A fuse on the common path
LED LOAD	Up to 400 W LED per output; derate for driver inrush
CURTAINS	L3 / L4 as an interlocked, break-before-make pair
INPUTS · NCD	DI1 and DI2 for dry contacts; no relay outputs
BINDINGS	Up to 24 per keypad, plus CAN groups 1–64; Keypad or Switch mode
UPDATES	Firmware over CAN-BUS, no faceplate removal

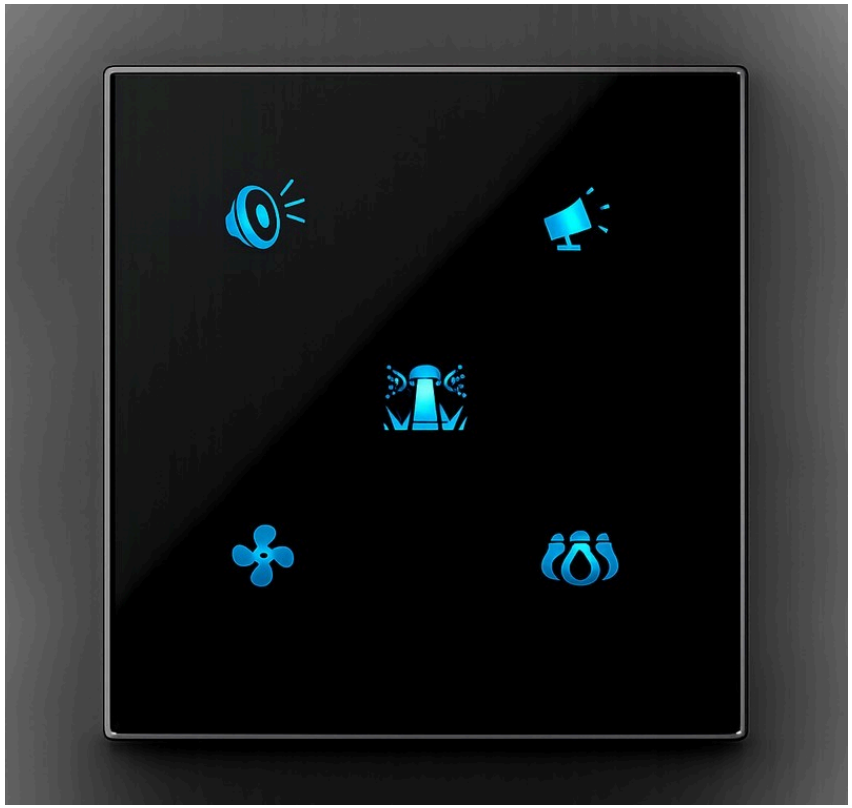
Z-WAVE

Z-Wave Keypad

The wireless choice for retrofits: no new cabling, a Non-Neutral version for older wiring, and firmware updates over the air from the controller.

	With Neutral ZA	Non-Neutral ZN
BEST FOR	New builds and renovations	Retrofits with no neutral at the switch
SUPPLY	110–240 VAC, 50/60 Hz	110–240 VAC, no neutral terminal
OUTPUTS	4 relays, 2 A each, 8 A combined	4 switched outputs
LOAD	400 W resistive or LED per output	250 W LED per output, 8 W minimum; bypass supplied
CURTAINS	Interlocked pair L1/L2 or L3/L4 (parameter 15)	Not available
MODELS	**APX-Crystal-nZA** **APX-Classic-nZA**	**APX-Crystal-nZN** **APX-Classic-nZN**

- Z-Wave 800 Series
- Over-the-air updates
- Short and long press, 0.5–4 s
- 8 LED colours for off and on
- Standby and working brightness
- Works with Fibaro and Yubii Home



Crystal and Classic faceplates

n = number of buttons

Faceplates & finishes

Every faceplate fits every back-unit of its kind, CAN-BUS or Z-Wave. The finish changes the look, never the wiring.

Crystal

GLASS

Keypads with 1 to 5 buttons, and thermostats.



Keypad



Thermostat

FINISHES

- White
- Black

KEYPAD LAYOUTS



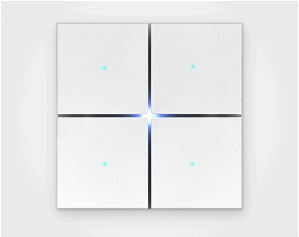
1 2 3 4 5

The centre position is a scene input, not a relay output.

Classic

METAL

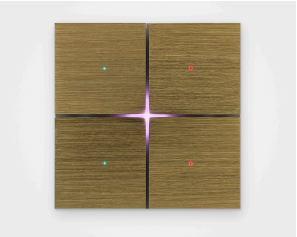
Keypads with 4 buttons, and thermostats, in five metal finishes.



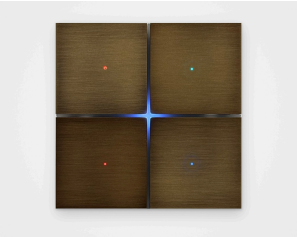
White



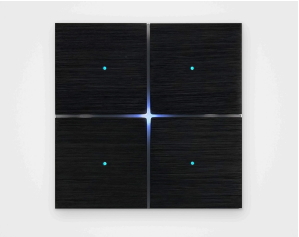
Silver



Golden



Antique



Black

Keypad in each finish. Thermostats come in the same five finishes.



CAN-BUS

CAN Thermostat

The wired thermostat: three fan speeds and a valve with auto fan and Delta-T, or, on -IR models, any split air conditioner over infrared.

AC · FAN-COIL

TCA

110–240 VAC · Q1–Q3 fan, Q4 valve

DC · INPUTS

TCD

12–24 VDC · 2 dry contacts

Full code: series + model, for example **APX-Classic-TCA**. Models ending in **-IR** control an air conditioner over infrared.

OUTPUTS · TCA	Q1 low, Q2 medium, Q3 high fan, Q4 valve; switched live, 400 W per line
INPUTS · TCD	DI1 and DI2 for dry contacts; no relay outputs
REGULATION	Setpoint 15–35 °C; auto fan by the gap to setpoint; valve Delta-T 0.5–3.0 °C
-IR MODELS	Heat, Cool, Fan, Dry, Auto in the air conditioner's own IR code; relays as switch outputs
UPDATES	Firmware over CAN-BUS

Z-WAVE

Z-Wave Thermostat V8

One wall device, five products. The same faceplate, display and back unit become the climate control each room needs: one design, one spare part, one installer routine.

01 · THERMOSTAT — **TZA · TZD**

Fan-coil, 2-pipe or 4-pipe: three fan speeds and a valve, or two fan speeds with separate heating and cooling valves.

02 · THERMOSTAT 0–10 V — **TZ010**

Three fan speeds and a 0–10 VDC output that opens the valve in proportion to the demand.

03 · THERMOLIGHT — **TZLA · TZLD**

Two lights on the thermostat's own keys, plus a fan and valve or a 2-speed fan.

04 · THERMOIR — **TZCA · TZCD**

Four lights, and any split or ducted air conditioner over infrared (Remotec ZXT-800).

05 · FLOORHEAT — **TZFA · TZFD**

Three lights and one water or electric floor-heating zone, with its own floor icon and flame.

Full code: series + model, for example **APX-Crystal-TZFA**. A = 110–240 VAC, D = 12–24 VAC/DC contacts, 010 = 0–10 V output; -IR = infrared probe.



Z-WAVE

Four outputs, set by the model

The firmware decides what Q1–Q4 do and what the Z-Wave controller sees. Wiring and parameter templates for each model are in the installer manual and on the dealer site.

Model · parameter	Q1	Q2	Q3	Q4	In the hub
Thermostat · 18 = 0–3	Fan low	Fan medium	Fan high	Valve	Thermostat + sensor
Thermostat · 18 = 4–7	Fan low	Fan high	Heating valve	Cooling valve	Thermostat + sensor
Thermostat 0–10 V	Fan low	Fan medium	Fan high	0–10 V valve	Thermostat + sensor
ThermoLight · 23 = 0	Light 1	Light 2	Fan	Valve	2 lights + thermostat
ThermoLight · 23 = 1	Light 1	Light 2	Fan low	Fan high	2 lights + thermostat
ThermoIR	Light 1	Light 2	Light 3	Light 4	4 lights + AC thermostat
FloorHeat	Light 1	Light 2	Light 3	Floor heating	3 lights + thermostat

BACK UNITS

TZA 110–240 VAC, switched live · TZD 12–24 VAC/DC, four NO contacts · TZ010 0–10 VDC, max. 20 mA

REGULATION

Delta-T 0.5–3.0 °C (parameter 21); valve modes heat, cool or both; auto fan

TEMPERATURE

Integrated, external NTC 10K or IR probe on G / I; Thermostat models also take a room value from the hub

THERMOIR

Heat, Cool, Fan, Auto, Dry and four fan speeds, sent to the air conditioner by the ZXT-800 QuickApp

FLOORHEAT

Off / Heat; the flame lights while the floor is heating; Q4 drives a zone valve or a contactor coil

THERMOLIGHT BUILDS

Standard for Yubii Home and HC3 engine 3; a second build for HC3 engine 2

COMMISSIONING

Button 4: add, remove, reset; non-secure inclusion on Fibaro HC3 / Yubii Home

HUB TEMPLATES

Yubii Home / HC3 parameter template per model, on the dealer site next to the firmware

Made to match the room

Every key has its own colour for off and for on, and the display and the keys each have their own brightness. All of it is a Z-Wave parameter, set from the controller.

15 LED COLOURS · PARAMETERS 1–4 OFF, 6–9 ON

0 Off	1 Red	2 Green	3 Yellow	4 Blue	5 Purple	6 Cyan	7 White
8 Orange	9 Lilac	10 Pink	11 Amber	12 Warm white	13 Lime	14 Sky blue	15 Magenta

TWO LEVELS

Working and standby

Parameter 12 sets the panel while it is used, parameter 11 the calm level 5 s after the last touch.

TWO PARTS

Display and buttons

Parameter 46 shares that level with the digits and icons, parameter 47 with the four key LEDs, 1–100 % each.

START-UP

A light show

At power-up a wave crosses the keys from cyan to white, then the panel fades into its normal state.

RADIO

Z-Wave 800 Long Range

Mesh and Long Range with Fibaro HC3 and Yubii Home; signed firmware updates over the air.

IP · CAN-BUS

Relay Module

One module replaces separate lighting, curtain and fan-coil controllers. Latching relays hold through a power cut and return to their last state; a push button on every channel makes wiring checks quick.

APX-1616-RL	16 channels
APX-2416-RL	24 channels



RATING
16 A resistive per channel at 250 VAC; contact up to 20 A, 750 A / 10 ms impulse

SUPPLY
100–240 VAC, 50/60 Hz · under 3 W

NETWORK
Ethernet with SDDP discovery, plus a CAN-BUS port

CONFIGURATION
Built-in web page: channels, rooms, CAN devices, bindings, backup

CHANNELS
Shutter pairs and fan-coil groups with interlock; timers, max on-time, lock

UPDATES
From the web page, including connected CAN devices

ENCLOSURE
DIN rail, cabinet installation · 1 kg

ENVIRONMENT
−10 to 60 °C · 5–95 % RH, non-condensing

IP · CAN-BUS · DALI



DALI Gateway

Fewer parts in the panel and a faster handover: the DALI bus supply is built in, commissioning runs from a browser, and keypads bind straight to addresses, groups and scenes.

64	16	16	250
short addresses	groups	scenes	mA bus supply

MODEL	**APX-DG**
DALI TYPES	DT6 dimming; DT8 tunable white, XY, RGB, RGBW and RGBWAF
COMMISSIONING	Web page: rescan, address new gear, or readdress the whole line
START-UP	Last state or normal, set in each driver
CAN BINDING	Keypads bound to addresses, groups or scenes
SUPPLY	110–240 VAC, under 5 W · 0.5 kg · −10 to 60 °C

Every shade of light

From warm evening white to saturated colour, driven from one gateway and recalled with a single touch on a SmartAPEX keypad.

TUNABLE WHITE

Warm to cool on one fitting



2700 K 3000 K 4000 K 5000 K 6500 K



Colour point (XY)

Any colour, set by its exact coordinates.



RGB

Full colour from three channels.



RGBW

A dedicated white channel for clean whites.



RGBWAF

Adds amber and a free channel for richer tones.

CAN-BUS

Digital Input 16

Turns any sensor or contact into a trigger, with no controller in between: each input switches a relay, starts a scene or sets a thermostat directly.

Motion and presence sensors	Door and window contacts	Push buttons and switches
Water leak sensors	Smoke detectors	Alarm outputs and equipment status



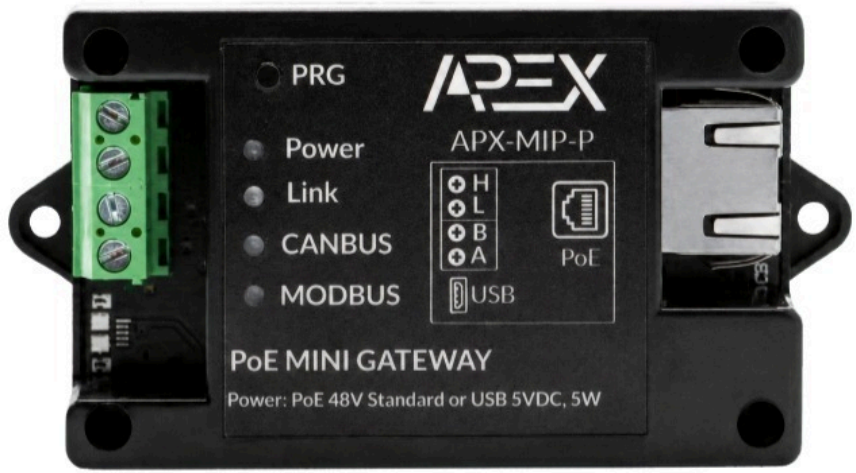
MODEL	**APX-DI16**
INPUTS	16 isolated channels, LED on each
TRIGGER	Contact to +12 VDC, or a 12–24 VDC signal, from an external supply
BUS	CAN-BUS, to DIN-rail modules or the Mini IP
SUPPLY	110–240 VAC, under 3 W
SIZE	About 88 × 98 mm, DIN rail · 0.4 kg

IP · CAN-BUS · RS485

Mini IP Gateway

One small PoE unit, one firmware. Choose on its web page what the RS485 port does: Modbus meters and HVAC, a Modbus TCP gateway, or curtain motors.

APX-MI



STANDARD

CAN gateway and HVAC

Up to 64 SmartAPEX CAN devices, plus Modbus RTU polling: 20 devices × 6 points, meter templates and a generic HVAC unit linked to a CAN thermostat.

MODBUS TCP

Energy and power meters

Transparent Modbus TCP to RTU on port 1502 for Fibaro, Yubii and other clients. 1–8 meters recommended, up to 32 on a well-built line.

CURTAINS

RS485 curtain motors

MiCURTAIN / A-OK, N17 · N21 · N23 and Dooya DT82TV motors: open, close, stop and exact position from Control4 or the QuickApp.

POWER
48 V PoE, or USB 5 VDC · 5 W

PORTS
Ethernet, CAN-BUS (H, L), RS485 (B, A)

MOUNTING
Wall or enclosure · 0.15 kg

ENVIRONMENT
−10 to 60 °C · 5–95 % RH

APEX Scheduler

The home's schedule, inside the Control4 app.

Homeowners decide when lights, shades and climate run themselves, without a call to the installer.

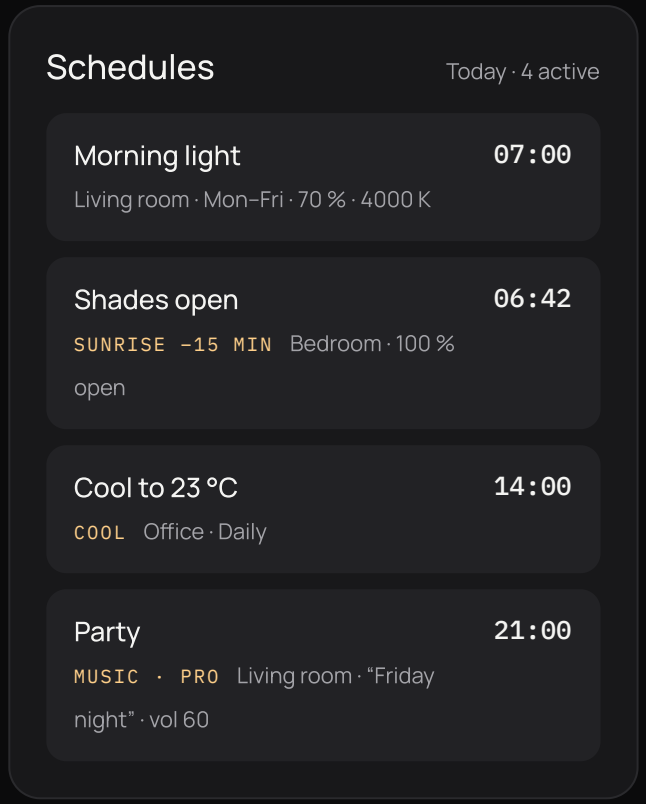


Illustration of the Scheduler screen.

FREE

Included with every SmartAPEX IP module

- Schedules by room for lights, shades and HVAC
- Sunrise and sunset, with an offset
- Daylight curves for brightness and colour
- Scenes and Control4 voice
- SmartAPEX keypad triggers
- Backup and restore

PRO LICENCE

30-day free trial on each controller

- Party mode with music, playlists and volume
- Prayer times and adhan

REQUIRES CONTROL4 OS 3.1.3 OR LATER

Every model, one table

Example **APX-Crystal-TZFA** = Crystal · FloorHeat · Z-Wave · 110–240 VAC

MODEL	PRODUCT	PROTOCOL	DESCRIPTION
APX-[Series]-nZA	Keypad	Z-Wave	With neutral, 4 relays, curtain mode
APX-[Series]-nZN	Keypad	Z-Wave	No neutral required, 4 outputs for LED lighting
APX-[Series]-nCA	Keypad	CAN-BUS	AC, 4 relay outputs
APX-[Series]-nCD	Keypad	CAN-BUS	DC, 2 dry-contact inputs
APX-[Series]-TZA · TZD	Thermostat	Z-Wave	Fan-coil: 3 fans + valve, or 2 fans + 2 valves; mains or 12–24 V contacts
APX-[Series]-TZ010	Thermostat 0–10 V	Z-Wave	3 fan speeds + 0–10 V modulating valve
APX-[Series]-TZLA · TZLD	ThermoLight	Z-Wave	2 lights + fan-coil
APX-[Series]-TZCA · TZCD	ThermoIR	Z-Wave	4 lights + air conditioner over IR (ZXT-800)
APX-[Series]-TZFA · TZFD	FloorHeat	Z-Wave	3 lights + floor heating
APX-[Series]-TCA	Thermostat	CAN-BUS	AC, 3-speed fan and valve
APX-[Series]-TCD	Thermostat	CAN-BUS	DC, 2 digital inputs
APX-1616-RL	Relay Module	IP · CAN-BUS	16 latching relays, 16 A
APX-2416-RL	Relay Module	IP · CAN-BUS	24 latching relays, 16 A
APX-DG	DALI Gateway	IP · CAN-BUS · DALI	64 addresses, DT6 and DT8
APX-DI16	Digital Input	CAN-BUS	16 isolated inputs
APX-MI	Mini IP Gateway	IP · CAN-BUS · RS485	PoE; CAN gateway with Modbus, Modbus TCP or RS485 curtains

[Series] = Crystal or Classic. n = number of buttons: Crystal 1–5, Classic 4. CAN thermostat codes ending in **-IR** control an air conditioner over infrared. Power units and faceplates are also sold separately.

Control at Your Fingertips

Planning a project or looking to represent SmartAPEX in your market? Let's talk.

01

Become a dealer

Apply for dealer access, pricing and project support.

smartapex.es/dealer/register

02

Download datasheets

Manuals, wiring diagrams, parameter templates and the latest catalogue.

smartapex.es/downloads

03

Talk to sales

Quotations, lead times and project pricing.

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Specifications may change without notice. Data as of the 2026.11 installer manuals and Z-Wave firmware 10.25.

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