

KNX TECHNOLOGY – INTRODUCTORY CASE FOR THE KNX BUS



Pushbuttons are easily removable without a tool to facilitate access to the programming buttons.



Case with ergonomic handle.
Dimensions 534 x 374 x 190mm.
Power supply 230V-2P + E.

Learn about KNX building automation technology quickly and easily with this simple, intuitive model. This instructional solution enables acquisition and validation of the skills for the diploma in Electricity and Connected Environments, in a simple home automation environment. Ideal for introducing your students quickly and clearly!

Safe wiring on 4mm terminals. Identifying information for components and other technical features are printed on the sides. Operational status of KNX components (rolling shutter and lighting) are displayed directly on LEDs integrated in the case.

With the communicating version, an energy meter integrated in the system can indicate the power consumed by the spotlight and display it directly on your tablet or smartphone.

A WiFi switch + IP interface unit lets the student measure consumption and control the installation from a tablet or smartphone. The WiFi network created locally is specific to the model, so it is isolated from your institution's WiFi network.

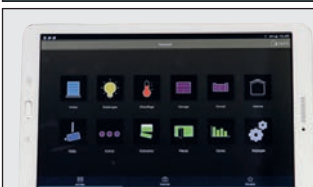
VALDOM-KNX2 and **-KNX2-C** are delivered completely configured. Delivered with ETS Lite software for programming the model.

Teaching instructions in Instructor / Student format, including:

- Technical instructions, manufacturer resources for KNX components
- Excerpts of electrical standards
- Layout diagram of the components
- Electrical wiring diagram
- Video tutorials to teach KNX programming simply.
- Different KNX installation programmes
- Learning activities that allow you to create scenarios in order to optimise the installation's operation, while preserving the occupant's comfort.
- Q/A-type skill assessment sheets in Excel® software.

An administrator password lets the instructor correct the student's assessment and modify the questions/answers as required.

OPTION TABLET WIFI 11" CONFIGURED



Samsung® tablet

- Wifi 11 pouce touch Full HD
- 1,3Ghz / 1,5Go RAM
- 32Go

ref. TAB-97

ref. VALDOM-KNX2	Standard version without Wifi		
ref. VALDOM-KNX2-C	Communicating version		
SUPPLIED FULLY WIRED AND CONFIGURED	AUTONOMOUS WIFI NETWORK	TEACHING RESOURCES STUDENT / TEACHER	SIMULATED ELECTRICAL COMPONENTS

EDUCATIONAL OBJECTIVES

- To learn about the **HOME AUTOMATION** environment of an electrical installation
- To learn about and study the features of a **KNX home automation installation**
- To understand the specifications of an electrical installation
- To produce electrical diagrams
- To create a parts list of components & analyse manufacturer technical data sheets
- To configure the **KNX components**
- To put installation into service
- **VALDOM-KNX-C only** : To configure the **WiFi network**

TEACHING RESOURCES WITH PRACTICAL WORKS

COMPOSITION OF THE CASE

On the upper side

- 5 LEDs with 2x 4mm power supply terminals simulating: Garden lighting; Kitchen lighting; Dining room lighting; Living room lighting; Room lighting
- 1 wall light for power measurement (version-V only) and lighting variation.
- 2 "Up and Down Roller Shutter" LEDs with 4x 4mm power supply terminals.
- 1 pushbutton 2 keys with LEDs. KNX
- 1 push button 4 keys with LEDs. KNX
- 1 3-way energy meter. KNX (Communicating version only)
- 1 KNX Ethernet interface for WIFI communication. (Communicating version only)
- 1 thermostat with programming screen + keys. KNX

On the lower side

- 1 USB interface for programming. KNX
- 1 BUS supply 30V-320mA. KNX
- 1 set of KNX actuators allowing the management:
 - a convector
 - a rolling shutter
 - variable lighting
 - TOR outputs
- 4mm safety terminals for wiring all components
- 1 230V mains socket.
- 1 Ph+N 10A (C curve) circuit breaker with its 30mA residual current block.
- 1 socket with switch + protection for connecting the 230V mains cable.

1 configured WiFi router (VALDOM-KNX2-C only) Local WiFi specific to the system

CYBERSECURITY OPTION

ROUTER - FIREWALL - VPN



ref. IP-FW

Router-Firewall can be integrated into Langlois communicating products.

It allows the application of skills in network administration and cybersecurity.

This module is very easy to integrate and configures simply and quickly.

The IP-FW option includes:

- 1 Router-Firewall ready to use with solution installed and configured.
- 1 set of ethernet cables
- 1 technical notice
- 1 set of network and cybersecurity oriented practical work:
 - Reminder on network administration and cybersecurity
 - Installation and connection of the module
 - Configuration of the box (DHCP Server, LAN Interface, VLAN, traffic rule...etc...)
 - Configuring a VPN tunnel
 - Carrying out maintenance operations.