KNX training with the new GAMMA Training Kit 5.1
Modular, easy and individually configurable

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GAMMA KNX training with the Training Kit in the Training Center or external locations
The modular GAMMA Training Kit GTK 5.1 consists of the demo case Classic Basic with the already mounted Module 110 or Module 120.

A fully equipped training case Classic Basic can provide mobile KNX trainings for system integrators, electrical installers and planners. Both training cases offer the option to mount three additional modules individually and at a different place the DALI Module. On the Module 110 and 120 there is a pushbutton with a programmable interface and the room control unit UP 227. They differ in the pushbutton triple (Module 110) and the air quality sensor (Module 120). All cases of the GTK 5.1 series are robust and built as a trolley suitcase for a safe and easy transportation of the technical components.

The GTK 5.1 – Classic Basic presents the following functions:

- Switching, dimming, solar protection, set value, central function
- Heating and cooling with room control unit UP 227
- Window contact
- Information display and weekly schedule programs with room control unit UP 227
- KNX/IP communication
- Alarm function „wind”
- Web visualization with the IP Control Center N 152

In the basic configuration, these devices are mounted in the GTK 5.1 – Classic Basic:

- Power supply unit N 125/22
- USB Interface N 148/12
- IP Router N 146/03
- IP Control Center N 152
- 8-port network switch 10/100 Mbit/s
- 3 x KNX connection sockets
- 2 x DALI connection sockets
- 6 x switching/dimming, heating and cooling with N 536DB51
- 4 x blinds with 2 x RL 521/23 with AP 118
- Pushbutton interface quadruple UP 220D31
- Pushbutton with LED via UP 220D31
- Room control unit with display UP 227
- BTM, i-system pushbutton, LED 223/13, white UP Module 110
- AQR Room sensor
Room model

The room model is the starting point in the display and operation section of the case, which is controlled by the mounted Function and Operation Modules (FOMs).

The room model in the GAMMA Training Kit enables you to show all KNX functions such as:
- Lighting group A & B above a meeting table
- Lighting group C in a meeting room
- Lighting D in the staircase
- Office room lighting E and F
- Blinds on four sides M1, M2, M3 and M4
- Wind sensor simulation wind / no wind
- Window simulation: window open / closed
- Heating radiator G
- Cooling element H

Demo case configuration

In the basic configuration of the demo cases and the mounted FOM are not predefined but can be extended and exchanged with any optional FOMs. There are three module places left for your own configuration. Only the module 110 or 120 is a minimum requirement in order to control the window and wind simulation. In the case of the unassembled modules: the required devices need to be ordered separately. These customized modules can be connected to a wiring connector socket block in the space behind these modules.

The KNX solutions and applications in the GTK 5.1 depend on the mounted FOMs. A module consists of a 200 x 200 mm plate with one or more installed KNX devices. The module M710 DALI has different dimensions and is mounted in the distribution board area.

All modules can be ordered without a device and with an installed GAMMA device. For the unassembled modules, the KNX devices need to be ordered separately. In this way, the GAMMA Training Kits are flexible in their usage and can be upgraded individually.
## Selection and ordering data

### GAMMA-Training Kit GTK 5.1

<table>
<thead>
<tr>
<th>Description</th>
<th>Module 100 Mounting Plate quadruple*</th>
<th>Module 110 Pushbutton with UP 227</th>
<th>Module 120 Pushbutton &amp; Air Quality Sensor</th>
<th>Module 131 Pushbutton &amp; Presence detector</th>
<th>Module 200 Mounting Plate double*</th>
<th>Module 220 Presence detector KNX/DALI with LED strips</th>
<th>Module 300 Mounting Plate single*</th>
<th>Module 320 QMX3</th>
<th>Module 410 Touch Panel</th>
<th>Module 500 Cover Plate</th>
<th>Module 700 Cover Plate DALI</th>
<th>Module 710 DALI</th>
<th>Module 720 LED dimmer (four channels)</th>
<th>Main Line Module</th>
<th>Module 250 Presence Detector WIDE multi</th>
<th>Module 260 Presence Detector WIDE Dual Tech</th>
</tr>
</thead>
</table>

The order for the GAMMA Training Kit 5.1 and the Operation and Function Modules (FOMs) can be placed via local sales. Please inform local sales about the required article and you will receive an offer. The presentation and training cases are offered in the versions listed above and can be extended with optional Modules. Please contact your local sales in case of further questions.

* Product needs to be ordered separately, the necessary electronic components for connections are included.
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Published by
Siemens Switzerland AG
Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
6300 Zug
Switzerland
Tel. +41 58 724 24 24

Siemens AG
Smart Infrastructure
Lyoner Strasse 27
60528 Frankfurt am Main
Germany
Tel. +49 69 6682 6660

Siemens Schweiz AG
Smart Infrastructure
Sennweidstrasse 47
6312 Steinhausen
Switzerland
Tel. +41 585 579 200

Siemens AG Österreich
Smart Infrastructure
Siemensstrasse 90
1210 Vienna
Austria
Tel. +43 517 073 2383

Siemens SA
Smart Infrastructure
20, rue des Peupliers
2328 Luxembourg/Hamm
Luxembourg
Tel. +352 43 843 900

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