Integration of alarm technology and intelligent building control

Webinar: KNX Security Panel GM/A
Alarm technology and intelligent building control
A winning combination

- Application of alarm technology
- Application of intelligent building control
- Using the sensors and functionalities of professional alarm technology in addition for intelligent building control
History of ABB alarm technology
More than 30 years of experience

Know how in alarm technology since 1975

1975
Intrusion alarm systems
SAL2/4/8

1983
Intrusion alarm systems
ER41

1985-1987
Intrusion alarm systems
L102, L204, L804, L808

1996-1999
Intrusion alarm systems
L108, L208, L840

2005
Intrusion alarm system
L240

Stand-Alone

Integrated into intelligent building control

1998
ABB i-bus EIB Zone Terminal

2000
ABB i-bus EIB Interface for intrusion alarm system L208

2001
ABB i-bus EIB Zone Terminal FM

2004
ABB i-bus KNX Security Module

2008
ABB i-bus KNX Interface for intrusion alarm system L240

2010
ABB i-bus KNX Security Terminals

2013
ABB i-bus KNX Hazard Warning System

Know how in intelligent building control since 1980

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Innovation
KNX Security Panel GM/A 8.1

Know how in alarm technology since 1975

Know how in intelligent building control since 1980
KNX Security Panel GM/A 8.1
One system – all interfaces

- Ethernet connection for programming, diagnostics and operation via standard webbrowser
- Direct inputs for security sensors
- Keypads
- Internal, external or remote alarming
- Security-Bus for zone modules, motion detectors and setting devices
- KNX interface to display alarm states via displays of intelligent building control and to control automatic functions with support of security sensors
KNX Security Panel GM/A 8.1
A complete product portfolio

- Magnet reed contact
- Glass break sensor
- Motion detector
- Water detector
- Gas detector
- Smoke detector
- Zone module
- Motion detector
- Keypads
- Security-Bus
- SafeKey Setting Device and SafeKey Evaluation Module
- Alarming
- LAN
- Keypad-Bus
- KNX
- Security Terminal

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Administration of max. 344 zones

- 8 onboard zone inputs 8
- 64 Bus motion detectors + 64
- 32 Zone Modules (each 4 zones) + 128
- 8 SafeKey Module (2 zones) + 16
- 128 zone inputs via KNX + 128

**Total zone inputs** 344

**Hint**

- Number of zones via Security Bus depends on required current and cable length/cross section (max. 800 mA)
The keypad is used to operate and display the information of the system states of the GM/A KNX Security Panel.

The multifunction and special keys mean that all the system functions can be operated easily.

All the keys are preconfigured. They can be reconfigured using the web interface.

Safety-relevant functions are protected by a user PIN.

The device can be used in systems with increased system requirements according to VdS and EN 50131/IEC.

For direct connection to the Keypad-Bus.
KNX Security Panel GM/A 8.1

Commissioning

- Parameter setting via standard webbrowser (Internet Explorer, Firefox, Chrome)

Benefits:
- No programming device
- No special software
- Clear overview and easiest commissioning
KNX Security Panel GM/A 8.1

Highlights

- First EN/IEC compliant KNX Security System on market
- Supports different languages (DE, EN, FR, IT, NL, ES, PL)
- Applicable from low to medium-high risk applications
- Universal usage for all kinds of hazards in a building like intrusion, hold-up and technical risks (Smoke/Heat, gas and water)
- Comissioning, visualization and operation via standard webbrowser
- Integrable with modern building- and communication technologies via ethernet and KNX
KNX Security Panel GM/A 8.1
Secured communication & protected access

- Encryption of all data via Secure Sockets Layer (SSL)
- Login via web interface only with username and password

Benefits:

- Highest security against attacks from local network
Website for KNX alarm topics:

- www.abb.de/knx-alarm
- www.abb.com/knx-alarm coming soon...

Benefits:

- All news and informations at one place
- Links to all needed additional informations (e.g. Product informations, e-Learnings, training dates, etc.)
KNX Security Panel GM/A 8.1
Marketing Tools

Video: „safe&smart“

ABB safe&smart
the simplest way to combine security and convenience
KNX Security Panel GM/A 8.1
KNX Security Panel GM/A 8.1
Commissioning – direct (Auto-IP)

Auto-IP address range:
169.254.1.0 to 169.254.254.255
KNX Security Panel GM/A 8.1
Commissioning – direct (Fixed-IP)
KNX Security Panel GM/A 8.1
Commissioning – router with DHCP-Server

Router
DHCP-Server
192.168.0.1

Local network 192.168.0.0

PC
192.168.0.156

Tablet
192.168.0.133

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KNX Security Panel GM/A 8.1
Commissioning

i-bus® Tool

- Start i-bus® Tools via file „i-bustool.exe“
- Press button „Connect“
- Change over to „IP Devices“
- IP network will be searched for ABB KNX IP devices
- KNX Security Panel will be listed as „ABB GM/A 8.1“
KNX Security Panel GM/A 8.1
i-bus® Tool
KNX Security Panel GM/A 8.1
Commissioning – Login
Terms of Use for the software of GM/A 8.1 KNX Security Panel

Version 1.1, 2014-11-17

1. Definitions, License Terms
These license terms (the "Terms of Use") shall apply as between the end-user ("Licensee") having bought a GM/A 8.1 KNX Security Panel (the "Product") and ABB Stotz-Kontakt GmbH, Heidelberg, Germany (the "Licenser"). The Licensee shall not be entitled to use the Product, including the software of the Product ("Software") prior to accepting these Terms of Use.

Licensee has bought the Product from a third party seller, i.e. not from Licenser. Licenser has agreed with its direct customer / trader ("Trader") on the scope and restrictions of the license and on the obligations of the Trader in relation to the Product and Software. The Trader is not allowed to transfer a license which exceeds the scope of the license granted by the Licenser to the Trader.

The Terms of Use reflect the license rights granted to the Trader as the Trader is entitled to transfer such rights to its customers (subject to restrictions and obligations). Therefore, these Terms of Use shall not constitute (additional) obligations of the Licenser. Any claims...
KNX Security Panel GM/A 8.1
Commissioning – Login
KNX Security Panel GM/A 8.1
Commissioning – Login “Operator“
KNX Security Panel GM/A 8.1
Main Menu: Operator

1. Operation and Display
2. History
3. User Management
4. Key Management
5. Programming
6. Service
7. Log in Administrator
8. Log out
9. Alarm symbol
10. Fault symbol
11. Telephone symbol
12. Date and time
KNX Security Panel GM/A 8.1
Login “Administrator“
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display – all Areas
Main Menu: Operation and Display – Area 1
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display – Intrusionalarm
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display – Intrusionalarm
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display – Intrusionalarm
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display – Intrusionalarm
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display – Intrusionalarm
KNX Security Panel GM/A 8.1
Main Menu: Operation and Display – Intrusionalarm

Area 1
Main building
Alarm

- Unset
- Internal set
- External set
- Switch off sirens
- Reset
- View open zones
- Disable groups
- Walk test
- Disable SafeKey
- Tamper reset

All areas
Area 1
Area 2
Area 3
Area 4
Area 5

Fire alarm
Emergency
Panic alarm

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KNX Security Panel GM/A 8.1
Main Menu: History
KNX Security Panel GM/A 8.1
Main Menu: History – Event Log
KnX Security Panel GM/A 8.1
Main Menu: History – Event Log

<table>
<thead>
<tr>
<th>No.</th>
<th>Date and Time</th>
<th>Event</th>
<th>Detail</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>894</td>
<td>01.12.2014 23:39:19</td>
<td>Message</td>
<td>unset</td>
<td>1</td>
</tr>
<tr>
<td>893</td>
<td>01.12.2014 23:39:19</td>
<td>Message</td>
<td>unset Request</td>
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</tr>
<tr>
<td>892</td>
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<td>Message</td>
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<tr>
<td>886</td>
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<td>883</td>
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<td>internal set</td>
<td>1</td>
</tr>
<tr>
<td>882</td>
<td>01.12.2014 23:38:15</td>
<td>Message</td>
<td>internal set Request</td>
<td>1</td>
</tr>
<tr>
<td>881</td>
<td>01.12.2014 23:38:15</td>
<td>Message</td>
<td>internal set Request</td>
<td>1</td>
</tr>
<tr>
<td>879</td>
<td>01.12.2014 23:32:06</td>
<td>Message</td>
<td>tamper reset</td>
<td>1</td>
</tr>
</tbody>
</table>

Additional info:
Magnetic contact
P.1
Window Kitchen
KNX Security Panel GM/A 8.1
Main Menu: History – Access Log (SafeKey)
Main Menu: History – Access Log (SafeKey)

<table>
<thead>
<tr>
<th>No.</th>
<th>Date and Time</th>
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<th>Key/Code</th>
<th>Detail</th>
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<tbody>
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<td>Access</td>
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<td>18257</td>
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## KNX Security Panel GM/A 8.1

### Main Menu: Save History – Event/Access Log (CSV)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<td>History</td>
<td>Date/Time</td>
<td>Event</td>
<td>Detail</td>
<td>Area</td>
<td>Additional Information</td>
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<td>3</td>
<td>893</td>
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<tr>
<td>4</td>
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<td>P_1</td>
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<td>Message</td>
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KNX Security Panel GM/A 8.1
Main Menu: User Management
KNX Security Panel GM/A 8.1
Main Menu: User Management

max. 25 users
KNX Security Panel GM/A 8.1
Main Menu: User Management
KNX Security Panel GM/A 8.1
Main Menu: User Management

max. 10 user groups
KNX Security Panel GM/A 8.1
Main Menu: Key Management
KNX Security Panel GM/A 8.1
Main Menu: Key Management

max. 250 keys or codes
KNX Security Panel GM/A 8.1
Main Menu: Key Management
KNX Security Panel GM/A 8.1
Main Menu: Key Management
Main Menu: Key Management

<table>
<thead>
<tr>
<th>Text</th>
<th>Set or unset</th>
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<tr>
<td>SafeKey Evaluation Module 1 (Main entrance, Area 1)</td>
<td>Access</td>
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<tr>
<td>SafeKey Evaluation Module 2</td>
<td>Access</td>
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<tr>
<td>SafeKey Evaluation Module 3</td>
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<td>SafeKey Evaluation Module 4</td>
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<tr>
<td>SafeKey Evaluation Module 7</td>
<td>Access</td>
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<tr>
<td>SafeKey Evaluation Module 8</td>
<td>Access</td>
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</tbody>
</table>

- **Code 2**: Dagobert Duck

![Image of KNX Security Panel GM/A 8.1 interface with details on key management and key codes.]
KNX Security Panel GM/A 8.1
Main Menu: Service – coming soon…
KNX Security Panel GM/A 8.1
Main Menu: Service – coming soon…
KNX Security Panel GM/A 8.1
Main Menu: Programming
KNX Security Panel GM/A 8.1
Programming – System settings: General
KNX Security Panel GM/A 8.1
Programming – System settings: Language
KNX Security Panel GM/A 8.1
Programming – System settings: Date and Time
KNX Security Panel GM/A 8.1
Programming – System settings: Encryption
KNX Security Panel GM/A 8.1
Programming – Communication settings: Network
KNX Security Panel GM/A 8.1
Programming – Communication settings: Modem
KNX Security Panel GM/A 8.1
Programming – Communication settings: E-mail
KNX Security Panel GM/A 8.1
Programming – Communication settings: SMS
KNX Security Panel GM/A 8.1
Programming – Areas: General
KNX Security Panel GM/A 8.1
Programming – Areas: Dependencies
KNX Security Panel GM/A 8.1
Programming – Areas: Forced setting
KNX Security Panel GM/A 8.1
Programming – Areas: Forced unsetting
KNX Security Panel GM/A 8.1
Programming – System Components
KNX Security Panel GM/A 8.1
Programming – System Components: Panel
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs

max. 14 characters
Text will be taken as the name of the ETS group object !!!

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KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs
Programming – System Components: Panel Inputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Inputs

[Image of software interface for programming panel inputs]
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Outputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel Outputs
KNX Security Panel GM/A 8.1
Programming – System Components: Panel

![Programming Interface](image-url)

<table>
<thead>
<tr>
<th>No.</th>
<th>Status information</th>
<th>Panel</th>
<th>Area 1</th>
<th>Area 2</th>
<th>Area 3</th>
<th>Area 4</th>
<th>Area 5</th>
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</thead>
<tbody>
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<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
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</tr>
<tr>
<td>2</td>
<td>Internal or external set</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
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<td>3</td>
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<td>☑</td>
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<td>4</td>
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<td>☑</td>
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### Panel State

<table>
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<tr>
<td>Power supply</td>
<td>OK</td>
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<tr>
<td>Battery 1</td>
<td>-</td>
</tr>
<tr>
<td>Battery 2</td>
<td>-</td>
</tr>
<tr>
<td>12V output</td>
<td>OK</td>
</tr>
<tr>
<td>Case tamper</td>
<td>OK</td>
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<tr>
<td>Back tamper</td>
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### Signalling Devices

<table>
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<td>Siren 1</td>
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March 19, 2015 | Slide 82
KNX Security Panel GM/A 8.1
Programming – System Components: Zone Modules

max. 32 Zone modules
KNX Security Panel GM/A 8.1
Programming – System Components: Zone Modules
KNX Security Panel GM/A 8.1
Programming – System Components: Zone Modules
KNX Security Panel GM/A 8.1
Programming – System Components: Zone Modules

4-fold (MG/E 4.4.1): 1

Enable input: [ ]
Number: MGT_1.1
Area assignment: 1
Text:
Input function: Magnetic contact
Type of monitoring: Contact with BOL resistor
Alarm behavior: Normal
Alarm in unset state:
Disable group for unset state: [ ]
Alarm in internal set state:
Disable group for internal set state: [ ]
Alarm in external set state:
Disable group for external set state: [ ]
Show status via KNX: [ ]
KNX Security Panel GM/A 8.1
Programming – System Components: Bus Motion Det.

max. 64 Bus motion detectors
KNX Security Panel GM/A 8.1
Programming – System Components: Bus Motion Det.
KNX Security Panel GM/A 8.1
Programming – System Components: Bus Motion Det.
KNX Security Panel GM/A 8.1
Programming – System Components: Bus Motion Det.
KNX Security Panel GM/A 8.1
Programming – System Components: Bus Motion Det.
KNX Security Panel GM/A 8.1
Programming – System Components: SafeKey Module

max. 8 SafeKey modules
KNX Security Panel GM/A 8.1
Programming – System Components: SafeKey Module
KNX Security Panel GM/A 8.1
Programming – System Components: SafeKey Module
KNX Security Panel GM/A 8.1
Programming – System Components: SafeKey Module
KNX Security Panel GM/A 8.1
Programming – System Components: SafeKey Module
KNX Security Panel GM/A 8.1
Programming – System Components: SafeKey Module
KNX Security Panel GM/A 8.1
Programming – System Components: SafeKey Module

Main menu > Programming

System settings
- Communication settings
- Areas
  - System components
    - Panel
    - Zone modules
    - Bus motion detectors
    - SafeKey modules
      - Keypads
      - KNX zone inputs
      - Alarm transmission system
      - Disable groups
      - Alarming
    - Setting
    - KNX

Module 1 > General > Input 1*

- Enable input:
- Number: EDF_1_2
- Area assignment: 1
- Text:
- Input function: Door lock monitoring
- Type of monitoring: N/C contact
- Disable group for internal set state: ---
- Disable group for external set state: ---
- Setting prevention: Internal setting:
- Setting prevention: External setting:
- Show status via KNX:
- Evaluation of electromechanical bolt lock:
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads

max. 5 Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: Keypads
KNX Security Panel GM/A 8.1
Programming – System Components: KNX Zone Inp.

max. 128 KNX zone inputs
KNX Security Panel GM/A 8.1
Programming – System Components: KNX Zone Inp.
KNX Security Panel GM/A 8.1
Programming – System Components: KNX Zone Inp.
KNX Security Panel GM/A 8.1
Programming – System Components: KNX Zone Inp.

max. 14 characters
Text will be taken as the name of the ETS group object !!!
KNX Security Panel GM/A 8.1
Programming – System Components: KNX Zone Inp.
KNX Security Panel GM/A 8.1
Programming – System Components: Activation
KNX Security Panel GM/A 8.1
Programming – Disable Groups
KNX Security Panel GM/A 8.1
Programming – Disable Groups
KNX Security Panel GM/A 8.1
Programming – Alarming
KNX Security Panel GM/A 8.1
Programming – Alarming

The image shows a software interface for programming the KNX Security Panel GM/A 8.1. The interface includes a menu with options such as "System settings", "Communication settings", and "Areas". Within the "System components" section, there is a focus on "Alarming" settings, which are further divided into "General", "Internal set", and "Externa set" tabs. The table displays various alarm settings for intrusion, temper, panic, hold-up, fire, emergency, technical alarm 1, and technical alarm 2.

The table includes columns for internal and external settings, with options for different alarm conditions such as normal, only optically, and delayed. The interface also highlights the "Unset" option for these settings.
KNX Security Panel GM/A 8.1
Programming – Alarming
KNX Security Panel GM/A 8.1
Programming – Alarming

[Image of a software interface showing programming settings for alarming.

- Alarming settings
- Externally set tab highlighted
- Internal warning, internal alarm, external alarm, and remote alarming settings shown]
KNX Security Panel GM/A 8.1
Programming – Setting
KNX Security Panel GM/A 8.1
Programming – KNX
Unidirectional:

- Status of GM/A can be completely transmitted to KNX, for each area separately (e.g. zones, set/unset, alarms, SafeKey)
- 14 Byte text messages
  (System state, triggered zone inputs of each area)
- Scene control

Bidirectional additionally:

- Set/Unset the system (internally, externally, delayed)
- 128 KNX zone inputs (cyclical monitoring possible)
- Reset/Tamper reset
- Activate/Deactivate disable groups
KNX Security Panel GM/A 8.1
Programming – KNX
KNX Security Panel GM/A 8.1
Programming – KNX

- Communication behavior: Bidirectional
- Sending alarm reports: [ ]
- Telegrams repeated every [10...3600 s]: 60
- Send date and time: Send every minute
- Evaluate ECU / KNX bus voltage failure via KNX Security Panel: No
- Activate 14 Byte messages: [ ]
- Language: English
- Change multiple messages automatically: [ ]
- Time interval for automatically change [s]: 10
- Enable external setting/unsetting: [ ]
- Signals reset? [ ]
- Reset includes tamper reset: [ ]
- Period for cyclic monitoring [60...3600 s]: 300

Options for sending messages:
- Send every minute
- Send every hour
- Send every 24 hours

Options for language:
- No
- as fault
- as tamper
- Deutsch
- English
KNX Security Panel GM/A 8.1
Programming – KNX Scene Control
KNX Security Panel GM/A 8.1
KNX and ETS

Export and Import of KNX Configuration

- Prior to the import of the KNX configuration it has to be exported via Web Interface of the KNX Security Panel
- After product added into ETS with right mouse click on the component a pop up menu will appear:

  → „Plug-In“ → „Import alarm panel configuration“
ETS Plug-In (only the first time)

- ETS Plug-In is necessary to import the KNX configuration of the GM/A 8.1 into ETS
- Via Plug-In all required communication objects will be enabled
- During the initial import of the product in ETS a message „missing Plug-In“ comes up
- By confirming with OK the installation assistant of ETS Plug-In will be started and installation will be carried out
KNX Security Panel GM/A 8.1
KNX Security Panel GM/A 8.1
KNX Security Panel GM/A 8.1
KNX Security Panel GM/A 8.1
KNX Security Panel GM/A 8.1

KNX and ETS – Parameter
KNX Security Panel GM/A 8.1

KNX and ETS

[Image of ETS software interface showing configuration options for a KNX Security Panel.]
### KNX Security Panel GM/A 8.1

#### KNX and ETS

<table>
<thead>
<tr>
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<th>T</th>
<th>U</th>
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</table>

→ only area 1
KNX Security Panel GM/A 8.1

KNX and ETS

→ only area 1
KNX Security Panel GM/A 8.1

KNX and ETS: Text messages

Messages part 1: Plain text e.g. intrusion/tamper/panic/…alarm
Messages part 2: Detailed information, e.g. name of the sensor/device/…
Triggered detectors: Name of the sensor
System state: Plain text e.g. unset, ready to set, externally set, fault

UP/DOWN: “0” read previous (earlier) message and “1” read next (older) message
### KNX Security Panel GM/A 8.1

**KNX and ETS**

---

#### ETS4™ - Webinar GM/A

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</table>
KNX Security Panel GM/A 8.1

KNX and ETS – Text: Disable group 4
### KNX Security Panel GM/A 8.1

**KNX and ETS**

---

#### ETS - Webinar GM/A

![ET4 - Webinar GM/A](image)

- **New**
- **Close Project**
- **Print**
- **Undo**
- **Redo**
- **Workplace**
- **Catalogs**
- **Diagnostics**

#### Topology

- **Add Areas**
- **Delete**
- **New Dynamic Folder**
- **Split Project**

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<td>-</td>
<td>W</td>
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<td>206</td>
<td>Date and Time</td>
<td>Time</td>
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KNX Security Panel GM/A 8.1

KNX and ETS – Text: Status of panel zone input 1

<table>
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**KNX Security Panel GM/A 8.1**  
**KNX and ETS – Text: KNX zone input 1**

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**Note**

- In case of changes of the KNX configuration of the GM/A 8.1 it has to be imported into ETS again
- All existing group addresses will remain as before
- Only changes will be synchronised
KNX Security Panel GM/A 8.1
Next Webinar

18th of February 2015

- Weather Sensor WES/A 3.1
- Weather Unit WZ/S 1.3.1.2
- Weather Station WS/S 4.1.1.2

To connect all common weather sensors for brightness, rain, wind speed/direction, light intensity, pyranometers, ...

- Analogue Input AE/S 4.1.1.3

Used wherever analogue variables should be detected
Thank you for participating in our webinars

We wish you a merry and blessed Christmas season and good fortune, health and success in the New Year 2015
Power and productivity for a better world™