



*ONLINE TRAINING*

## **Topic I Visualization & Control**

**Touch Panel Z38i: Specific Pages**



Edition 1

2010

## Introduction

Besides the two initial pages for free configuring, the touch panel has 5 different types of specific pages:

- Scenes
- Technical Alarms
- Schedule Programming
- Clima control
- Configuration

Configuration and Technical Alarms are fixed and Configuration is always enabled.

We can configure the other 4 specific pages that we have as one of the three types of pages.

In this section we will study the first three types: Scenes, Technical Alarms and Schedule Programming. In a following section, we will study the Clima pages.

## Scenes

A scene is the synchronized switching ON of several devices in a domotic installation. This way, different atmospheres are created by the user.



This is an example of scenes page. We can program up to 5 scenes per page and assigning a different icon for each of them



### Take into account

Besides the 5 scenes we can have in this page, we can use the boxes in the Home pages for configuring more scenes

For example, we can configure the heating system switching ON or the switching OFF of all lights in a house as a scene.

Next figure shows the “**data point type**” defined by KNX standard for the scenes control.

<u>Format:</u>	1 octet: B <sub>1</sub> r <sub>1</sub> U <sub>6</sub>				
octet nr.	1				
field names	CR	Scene-Number			
encoding	B	r	U	U	U
<u>Unit:</u>	Not applicable.				
<u>Resol.:</u>	Not applicable.				
<u>PDT:</u>	PDT_GENERIC_01				
<b>Datpoint Types</b>					
<u>ID:</u>	<u>Name:</u>	<u>Encoding:</u>		<u>Range:</u>	<u>Use:</u>
18.001	DPT_SceneControl	C	0 = activate the scene corresponding to the field Scene Number 1 = learn the scene corresponding to the field Scene Number	[0, 1]	G
		R	Reserved (0)		
		Scene-Number	Scene number	[0 ... 63]	

The Scenes Control DPT is a 1-byte object. First bit of this octet is used for activating or learning the scene corresponding to the field “**Scene Number**” while the second one is reserved. The other 6 bits of the octet make up the field “Scene Number” so we can configure up to **64 scenes** in KNX (2<sup>6</sup>).

Scene Field	Scene Number
0	1
1	2
...	...



**Important:** Take into account that the range for the scene number field begins in 0 and finishes in 63 so “0” in the field “scene number” corresponds to the scene number “1”.

## Technical Alarms

The Alarms page The Alarms page allows the error or accident detection on a KNX installation. For example the alarms coming from gas sensor or a fire sensor.

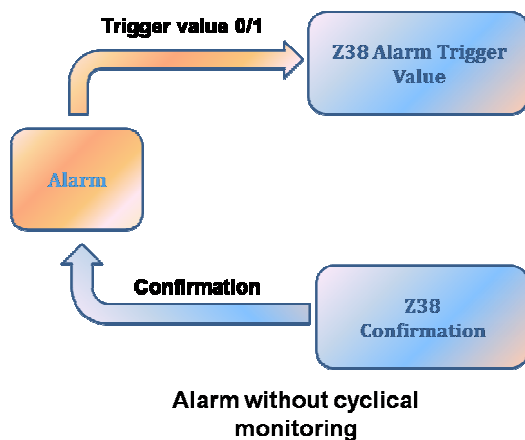
When an alarm is detected a danger icon is shown in the affected box, a beep is emitted to warn the user and the panel begins to blink.

When the user presses the ok button the touch panel recovers its normal state.

The Alarms page can show up to 6 alarms:



We have two ways of controlling the alarms: with cyclical monitoring and without it.



### Cyclical Monitoring

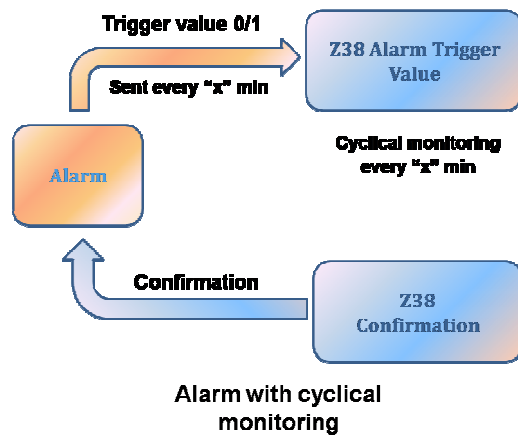
### No cyclical monitoring

Without cyclical monitoring when the trigger value is received and the user confirms the alarm, the touch panel recovers its normal state but the alarm icon remains in the screen until the "0" indicating that everything is ok again is received from the alarms system.

When we have a cyclical monitoring we are monitoring every certain

number of minutes that the alarm system is ON and operating properly.

The alarm operates in the same way as the non cyclical monitoring.



If we have an installation with several touch panels, we can confirm an alarm from one Z38i and it will be automatically sent to the rest of touch panels in the installation without having to confirm the alarm in every touch panel since the confirmation is a read/write object

## Schedule Programming

This specific page allows programming daily or weekly events. A typical example is automatically switching ON/OFF the heating or air conditioning system.



The initials of the days can be programmed in ETS (menu "General") in order to write them in the desired language

As we can see in the figure, every schedule programming page counts on 4 boxes.

This type of page is associated to the ON/OFF functions of the devices and it can be internally linked to the thermostat.



Every box can be associated to a *Clima* or *Scenes* page and, in addition, they have their own output channel through which the corresponding communication object is sent.