Manual KNX Visualization

Touch_IT-V-C3

Touch_IT-V-IP65

Touch_IT-V-SMART

Version: V2 / July_01 / 2020



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Manual

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3.5" TFT Display with 256K colors and touchscreen for visualisation and control in KNX systems. The display has a resolution of 320x240 pixels with 256K colors (RGB). We use a 32-bit ARM processor with 200 MHz clock frequency. It is equipped with a Linux operating system and features a mini-USB port and a microSD slot for data storage. The Touch_IT contains a wide range of functions:

Switching and dimming, Display of the switching status, RGB control, On / Off Switching of several devices, Alarm functions, Display and setting of heating control parameters, Multiroom Functions, Astronomic clock timer, Clock timer, Datenlogging, Each page and element can be protected by global or dedicated passwords, Possibility for user defined layouts. You can choose different housings







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Product Page - Touch_IT V C3 / IP65

The following section describes the installation, the existing connections, the specifications and the commissioning and parameterisation by the ETS.

The **Touch_IT-V-C3-IP65** (on-wall, outdoor / damp room, IP65) is mounted with 2 skrews onto the wall.

Installation **Touch_IT-V-C3-xxx** is carried out using a mounting ring. The locking screw is used for fixation in a standard 60 mm in-wall socket.

The Touch_IT features an integrated KNX bus coupler and requires additional voltage 9 .. 32VDC / 1,5W.

Different control elements are available for the application software.

The Touch_IT must be projected using the ETS (EIB Tool Software) and the application program. V2 Control elements and page layout can be parametrized using the ETS.

Touch_IT-V-C3 -IP65	On wall mounting Aluminium anodized	22410265
Touch_IT-V-C3 -AE	Metal housing with bevel Aluminium sandblasted anodized	22410200
Touch_IT-V-C3 -AW	Metal housing with bevel Aluminium white powder- coated	22410201
Touch_IT-V-C3 -SAE	Metal housing square-edged Aluminium sandblasted anodized	22410300
Touch_IT-V-C3 -SAS	Metal housing square-edged Aluminium sanded anodized	22410303
Touch_IT-V-C3 -SAB	Metal housing square-edged Aluminium sanded black anodized	22410304
Touch_IT-V-C3 -SAW	Metal housing square-edged Aluminium white powder-coated	22410301

Areas of Application

- · Switching and dimming of lighting
- RGB control with colorchooser
- Display of the switching status in building
- Control of various devices in the KNX-Bus
- Handling of shutters/blinds
- Acoustic and optic alarm functions
- Display of object states as plain text
- · Display and setting of heating control parameters
- · Control of multi room audio-systems
- Display of temperatures
- Weekly clock timer
- Astronomic clock timer for sunset/sunrise driven controls
- · Datalogging and on display diagram facility
- · Internal scenes with 32 action objects and programmable delays
- Logic functions can be implemented in a scripting language
- Separate display page for alarm purposes
- · Each page and element can be protected by global or
- dedicated passwords
- Different Layouts, visual styles and standby options
- Many languages available
- Character sizes and styles are selectable
- Possibility for user defined layouts, icons, screensavers etc.



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Content



A VISU







Technical Data

Display	3,5" TFT color display (320x240 RGB) (256k color) touchscreen	
Processor	200MHz 32-Bit ARM	
Operating system	Linux	
Background	Adjustable LED background light	
Parameterization	ETS	
Max. number of elements / Max. number of pages	8 / (5 control pages + 1 alarm page or 6 control pages)	
Ambient temperature, storage	-5 +60 °C	
Ambient temperature in operation	-5 +55 °C	
· · ·		
Operational voltage	EIB/KNX bus voltage 21 32VDC	
Approx. power consumption	10 mA (at 24V DC)	
Additional voltage	9 32VDC / approx. 1.5 W	
Bus coupler	Integrated AUX KNX	
Commissioning via ETS	Touch_IT_xxx.pr5	
Connections	EIB-2-polar terminal (red / black) AUX-2-polar terminal (yellow / white)	
Optional Temperature Probe (1-Wire)	Yes	
On-Wall		
Degree of protection	IP65	
Installation type	On wall mounting	
Casing	Aluminium anodized	
Casing measurements	120 x 80 x 48 mm (W x H x D)	
Articlenumber	22310265	
In-Wall		
Degree of protection	IP20	
Installation type	Installation with a mounting ring	
Casing	Various	
Casing measurements with bevel Casing measurements square-edged	82 x 82 x 8 mm (W x H x D) 80,5 x 80,5 x 8 mm (W x H x D)	
Articlenumber	22410xxx	

Α

VISU

Behaviour at Bus Voltage Recovery

All settings carried out using the ETS will be preserved.

Discharging Program and Resetting Device

If the visualization does not react due to a malfunction or incorrect configuration of the programming, the entire project work can be deleted by pressing the programming button. The device will be reset to delivery status. Please hold the programming button while connecting power supply and wait until the application for touch screen calibration appears. Normally, this takes 40-60 seconds. After entering the 5 calibration points, you can transmit your application once again.

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Content

Product Page – Touch_IT V SMART

The following section describes the installation, the existing connections, the specifications and the commissioning and parameterisation by the ETS.

3,5" Display for visualisation and control in KNX systems.

The **Touch_IT V SMART-xxx** variants have a very low mounting depth of 10.5mm and have an integrated infrared temperature sensor. The SD card is accessible without disassembly of the unit.

The device is carried out using a mounting ring. A locking screw are used for fixation in a standard (60/68 mm) in-wall socket.

The Touch_IT features an integrated KNX bus coupler and requires additional voltage 9 .. 32VDC / 1,5W.

Different control elements are available for the application software.

The Touch_IT must be projected using the ETS (EIB Tool Software) and the application program. V2 Control elements and page layout can be parametrized using the ETS.

Touch_IT-V-SMART -SAE	Metal housing without bevel Aluminium sandblasted anodized	22410500
Touch_IT-V-SMART -SAW	Metal housing without bevel Aluminium sandblasted white powder-coated	22410501
Touch_IT-V-SMART -SAS	Metal housing without bevel Aluminium sanded anodized	22410503
Touch_IT-V-SMART -SAB	Metal housing without bevel Aluminium sanded eloxiert black	22410504

Areas of Application

- Switching and dimming of lighting
- RGB control with colorchooser
- Display of the switching status in building
- Control of various devices in the KNX-Bus
- Handling of shutters/blinds
- Acoustic and optic alarm functions
- Display of object states as plain text
- Display and setting of heating control parameters
- Control of multi room audio-systems
- Display of temperatures
- Weekly clock timer
- Astronomic clock timer for sunset/sunrise driven controls
- Datalogging and on display diagram facility
- Internal scenes with 32 action objects and programmable delays
- Logic functions can be implemented in a scripting language
- Separate display page for alarm purposes
- Each page and element can be protected by global or dedicated passwords
- Different Layouts, visual styles and standby options
- Many languages available
- Character sizes and styles are selectable
- Possibility for user defined layouts, icons, screensavers etc.



3,5" Color Touch Display Touch_IT V SMART-xxx IP20 In-Wall IR-Temperature Sensor I²C (integrated)

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Content

Display: 3,5" TFT Tc Processor: 200MHz 32 Operating System: Linux Additional Voltage: 932VDC	uchscreen Bit ARM / 1,5W		10,5
Ambient Temperature Operation: Ambient Temperature Storage:	-5 +55 °C -5 +60 °C	80 mm	12
Case dimensions: Very low mounting depth:	(80 x 80 x 12) mm 10,5 mm	$\begin{array}{c} \hline \\ 3 \\ \hline \\ \end{array} \\ \hline \\ \end{array} \\ \hline \\ \end{array} \\ \hline \\ 26 \\ \hline \\ \\ \end{array} \\ \hline \\ \hline \\ \\ \end{array} \\ \hline \\ \hline \\ \\ \end{array} \\ \hline \\ \\ \end{array} \\ \hline \\ \\ \\ \end{array} \\ \hline \\ \\ \\ \\$	50mm
Optional Temperature-Probe:	Infrared-Sensor I ² C	3 / 3 / 20 Cancel 0K	
Protection class:	IP20		
			—

Commisioning and Connector Description

Commissioning the KNX display is carried out using the ETS (EIB Tool Software) and the corresponding application software. At delivery, the device is unprogrammed. All functions must be parameterized and programmed using the ETS. Please review the documentations belonging to the ETS.

The touch screen is designed for in-wall installation. The degree of protection is IP20. Installation is carried out using the support ring and the magnetic fixing. A locking screw type Torx-6 serves for fixation.

Please make sure that electronic parts do not get damaged by tools or cable ends during installation.



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Technical Data

Display	3,5" TFT color display (320x240 RGB) (256k color) touchscreen
Processor	200MHz 32-Bit ARM
Operating system	Linux
Background	Adjustable LED background light
Parameterization	ETS
Max. number of elements / Max. number of pages	8 / (5 control pages + 1 alarm page or 6 control pages)
Ambient temperature, storage	-5 +60 °C
Ambient temperature in operation	-5 +55 °C
Operational voltage	EIB/KNX bus voltage 21 32VDC
Approx. power consumption	10 mA(at 24VDC)
Additional voltage	9 32VDC / 1.5W
Bus coupler	Integrated
Commissioning via ETS	Touch_IT_xxx.v2
Connections	EIB-2-polar terminal (red / black) AUX-2-polar terminal (yellow / white)
Integrated Temperaure Sensor	Infrared
Degree of protection	IP20
Installation type	In wall mounting
Casing	various
Casing measurements	(80 x 80 x 12) mm (W x H x D)
Articlenumber	2241050x

Behaviour at Bus Voltage Recovery

All settings carried out using the ETS will be preserved.

Discharging Program and Resetting Device

If the visualization does not react due to a malfunction or incorrect configuration of the programming, the entire project work can be deleted by pressing the programming button. The device will be reset to delivery status. Please hold the programming button while connecting power supply and wait until the application for touch screen calibration appears. Normally, this takes 40-60 seconds. After entering the 5 calibration points, you can transmit your application once again.

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Installation Instructions Touch_IT-V-x

in-wall 60/68 Ø / depth \geq 47 mm



1. Fix the frame on the flush-mounted box.



 Turn the Touch_IT slightly to the left and insert it into the box. Then turn clockwise until the unit is sitting straight.



3. For fixture use the screw on the underneath (Allen Key 1.5).

Α

VISU

	1 Application Description
	Touch_IT V2
A VISU	1.1 General Settings
100	1.1.1 A) Master Password
	1.1.2 B) Use Pin for settings dialog
	1.1.3 C) Layout
	1.1.4 D) Icon theme
	1.1.5 E) Display menu page
	1.1.6 F) User language chooser
	1.1.7 G) Pages
	1.1.8 H) Use RTC
	1.1.9 I) Use logic functions
	1.2 ETS Objects



Main

Α

VISU

1 Application Description

1.1. General Settings

Fouch_IT_V2-01 > Get	neral			
General	Master PIN	A)	0	¢
+ Page 1	Use PIN for settings dialog	В)	No Yes	
+ Page 2	Layout	C)	2X4-Layout	•
+ Page 3	Icon theme	D)	O Bright O Dark (for bright surfaces)	
+ Page 4			1 2 3 4 5 6	
+ Page 5			7 8	
+ Alarm Page	Display menu page	E)	No O Yes	
	Display user language choose	r⊢)	O No Yes	
	Page scheme	1	5 Pages / 1 Alarm Page 6 Pages	
	Global format identifiers		;MTYPE=1	
	Additional identifiers			
	Page 1 Name [;Format]		Seite 1 ;ICO=RTR_NIGHT	
	Use PIN for Page2		O No O Yes	
	Page 2 Name [;Format]		Seite 2 ;ICO=RTR_PROTECTION	
1		G)		
	Use PIN for Page6		No Yes	
	Page 6 Name [;Format]		Seite 6	
	Use RTC	H)	O No Ves	_
	Use logic functions	I)	No O Yes	_
	Logic scheme		IO-Schema 3	*
Group Objects / Channel	s Parameters			
1 Neue Linie	1.1.2 Touch_IT_unten			La

1.1.1 A) Master Password

A Pin can be assigned to protect the different pages or object functions. In case that the value is "0", this function is inactive. e.g.

In case that Pin is "1", "0001" must be entered on the Touch_IT in order to access the protected page or to execute a function of the protected element.

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1.1.2 B) Use Pin for settings dialog

YES, if the system settings page is to be secured via the PIN.

1.1.3 **C**) Layout

There can be layouts **2** x **4** with 2 columns of 4 rows or a **2** + **6** layout with 2 large elements and 6 small elements arranged in two columns and a layout which can be **customi**zed

Custom Layout

Only reduced settings are available in the custom layout, the graphical user interface is defined using the **TouchIT-Creator tool** from Arcus-EDS GmbH (available 4th quarter 2020).

Master PIN	1111
Use PIN for settings dialog	No Yes
Layout	Custom Layout
Icon theme	Bright Oracle Dark (for bright surfaces)
Object Identifiers	111111110000000;111111110000000;11111111

	Lay	yout 2 x 4		Layout 2 + 6
Layout		2X4-Layout	•	2+6-Layout
Icon theme	D)	O Bright O Dark (for bright surfaces)		Bright Dark (for bright surfaces)
		1 2 3 4 5 6 7 8		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

1.1.4 D) Icon theme

With light backgrounds, dark icons are used and reversed. All internal icons are available in both versions.

Icon theme : Bright (ICONS)

Icon theme : Dark (ICONS)







1.1.5 E) **Display menu page**

Display menu page	E)	No Ves
Display user language chooser	F)	O No Ves
Page scheme	G)	◎ 5 Pages / 1 Alarm Page
Global format identifiers		;MTYPE= 3
Additional identifiers		
Page 1 Name [;Format]		Seite 1 ;ICO= POOL

0	Content

Page 1 Name [;Format]

An additional page (page 0) is inserted, which represents a menu selection of the defined pages. The visual representation can be adjusted with the parameter MTYPE:

MTYPE=0 (default) : List view of the page names MTYPE=1 : Tile view with page names MTYPE=2 : Tile view with page names and small symbols MTYPE=3 : Tile view with large symbols

the symbols are defined with ICO = in the page parameters

example: MTYPE=2



1.1.6 F) User language chooser

Different translation files can be created between which the user can choose. The language is selected using flag symbols in the menu or on the first page. The display elements are then changed automatically.

1.1.7 G)	Pages			
G1	Page scheme			
Page 0	MENU	optional	see	E)
Page1	Control Page 1			
Page 2 5	Control Pages			
Page 6	optional Control Page / /	Alarm Page		



Content

G2 Global format identifiers / additional identifiers

These fields are used for global parameter setting. For example the following parameters can be used.

STDLONG	Interpretation of a manual input as LONG (Default 500ms)
STDLONG=xx	Determines the time (in ms) from which the manual input will be taken as LONG.
STDREP	Default use of the general repetition rate. (Default 300ms)
STDREP=xx	Sets the repetition rate (in ms)
CUSTOMLAYOUT	Disables Layout (4x2 and 2+4). Forces widget placement with x,y-koordinates in Element [;Format].

G3 Pages Name ; Format

General	Page 1 Name [Format]	\$SWITCH:ICO=ONOFE b off
+ Page 1		
+ Page 2	Use PIN for Page2	No Yes
	Page 2 Name [;Format]	\$CONTROL;ICO=SHUTTER_b_off
+ Page 3	Lice DIN fer Dege?	
+ Page 4	Ose PIN IOI Pages	
+ Page 5	Page 3 Name [;Format]	\$LIGH1;ICO=ILLUMINATION
the Dense C	Use PIN for Page4	O No Ves
T Page 6	Page 4 Name [;Format]	\$REGULATE;ICO=HEATING
	Use PIN for Page5	No Yes
	Page 5 Name [;Format]	\$VARIOUS;ICO=LIVING
	Use PIN for Page6	No Yes
	Page 6 Name [;Format]	\$TIMER;ICO=TIMER

Page 2-5

Except for control page 1, all service pages can be protected/locked with a password. (Exception: When 6 control pages are defined, page 6 also can be protected with a password.)

Page 6 (Alarm) Name; Format

The name of the control or alarm page that appears in the layout menu can be assigned here. In addition, global alarm settings can be set here.

- RESCAN : Defines the time (in s) when alarm object is rescanned.
- BEEPOFF : Number of acoustic alarm signals
- AUTOHIDE : Leave alarm page if alarm condition is changed or confirmed in a different point.

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1.1.8 **H**) Use RTC

General		
Temperature controller	Use PIN for Page3	No Yes
H) Heating	Page 3 Name [;Format]	Seite 3 ;ICO=RTR_COMFORT
+ Page 1	Use PIN for Page4	No Ves
+ Page 2	Page 4 Name [;Format]	Seite 4
+ Page 3	Use PIN for Page5	O No Yes
+ Page 4	Page 5 Name [;Format]	Seite 5
+ Page 5	Use PIN for Page6	O No Ves
+ Page 6	Page 6 Name [;Format]	Seite 6
H)	Use RTC	○ No ◎ Yes
	Room temperature controller	1 Stage Heating 🗸
I)	Use logic functions	No O Yes
	Logic scheme	IO-Schema 3

Content

If room temperature control is to be used, several control types are available. These are dealt with in an additional document.

	·		
Page 4 Name [;Format]	2 Stage Heating	~	
	1 Stage Cooling		
Use PIN for Page5	2 Stage Cooling		
	1 Stage Heating/Cooling Switched		
'age 5 Name [;Format]	2 Stage Heating/Cooling Switched		
	1 Stage Heating/Cooling Gap		
e PIN for Page6	2 Stage Heating/Cooling Gap		
2	Fancoil Heating		
Page 6 Name [;Format]	Fancoil Cooling		
	Fancoil H/C Gap 4-Pipes		
Use RTC	Fancoil H/C switched 4-Pipes		
	Fancail H/C Gan 2 Dinor		~
Room temperature controller	2 Stage Heating		•

1.1.9 I) Use logic functions

If logic written in LUA is to be used, the IO scheme must be selected. Depending on the scheme, various KNX objects are available that are not used otherwise in the GUI.

Schema	1-Bit	1-Byte	2-Byte	4-Byte
Schema 1	10	8	8	5
Schema 2	23	4	2	2
Schema 3	15	12	2	2

Content

1.2 **ETS Objects**

If no elements in the pages are activated yet, only the system objects (1-5) within topology are displayed.

Ν	lu Name	Object Function	De	Gr	Length	С	R	w	Ť	U	Data Type	Priority
∎‡ 1	I Time	System Time input			3 bytes	С	R	W	Т	U	time of day	Low
■₹ 2	I Date	System Date input			3 bytes	С	R	W	Т	U	date	Low
■2 3	IO On/Off	System On/off			1 bit	С	R	W	Т	U	switch	Low
∎₹4	IO Standby	System Standby			1 bit	С	R	W	Т	U	switch	Low
■₽ 5	I LED	System LED			1 byte	С	R	W	Т	U	percentage (0100%)	Low

The date / time objects can be used for receiving and / or reading. These are used to synchronize the times in the KNX bus.

The ON / OFF object can be used for receiving and / or reading.

It shows the activity status of the TouchIT. (0 -> OFF 1-> ON or SCREENSAVE).

Sending a 1 to the device sets it in ON mode (1st page or menu is displayed) regardless of whether

the device is in OFF or in SCREENSAVE mode.

Sending a 0 puts the device in the OFF state, regardless of whether the device is in the ON or SCREENSAVE state.

The standby object can be used for receiving and / or reading.

It shows the activity status of the TouchIT. (0 -> OFF or ON 1-> SCREENSAVE). Sending a 1 to the device bright it in SCREENSAVER mode regardless of whether the device is in OFF or ON mode. Sending a 0 puts the device in the OFF state.

The SYSTEM-LED object actuates the optional notification LED (accessory) and is connected to the usual SIMPLE ALARM.

If RTC or logic function are used are the corresponding objects (6 - 31) respectively (32 - 62)

HVAC Objects

N	u Name	Object Function	De Gr	Length	с	R	w	т	U	Data Type	Priority
■26	O Temperatur	HVAC Temperature		2 bytes	С	R	W	Т	U	temperature (°C)	Low
■2 7	I External temperature	HVAC Temperature		2 bytes	С	R	W	Т	U	temperature (°C)	Low
■28	I HVAC mode	HVAC Mode		1 byte	С	R	W	Т	U	HVAC mode	Low
										1	
	i	i		,							
29	I Heating/Cooling	HVAC Mode		1 bit	С	-	W	-	U	cooling/heating	Low
■2 30	O Status 1	HVAC Status		2 bytes	С	R	W	Т	U	RHCC status	Low
■2 31	O Status 2	HVAC Status		1 byte	С	R	W	Т	U	8-bit unsigned value	Low

Logic Objects

Ν	lu	Name	Obje	De	Gr	Length	с	R	W	т	U	Data Type
■2 32	2	IO Logic 1-Bit 0	Logic			1 bit	С	R	W	Т	U	boolean
■2 33	3	IO Logic 1-Bit 1	Logic			1 bit	С	R	W	Т	U	boolean
■2 34	1	IO Logic 1-Bit 2	Logic			1 bit	С	R	W	Т	U	boolean
■2 60	0	IO Logic 2-Byte 2	Logic			2 bytes	С	R	W	Т	U	2-byte unsigned value, 2-byte signed value, 2-byte float value
■2 61	1	IO Logic 4-Byte 1	Logic			4 bytes	С	R	W	Т	U	4-byte unsigned value, 4-byte signed value, 4-byte float value
■2 62	2	IO Logic 4-Byte 2	Logic			4 bytes	С	R	W	Т	U	4-byte unsigned value, 4-byte signed value, 4-byte float value

Additional objects are displayed when the page elements are selected. Element 1 ist active on page 1 and defined as a 1-Byte object. Topology will change as follows: Every element includes function-specific objects that can be linked.

The exact analogy between parameter view and object view within topology will be displayed as follows:

e.g. Page 1,element 1 equals 1.1 -A within topology and 1.1-B

Nu	u Name	Object Function	Description	Group Address	Length	с	R	w	т	U	Data Type	Priority
63	1.1-A IO, Value_	1-Byte Value	Ventil 1	6/3/0	1 byte	С	R	W	Т	U	percentage (0100%)	Low
■2 64	1.1-B Input, Feedback_	1-Byte Value			1 byte	С	R	W	Т	U	percentage (0100%)	Low
■₹ 67	1.2-A IO, Value_	1-Byte Value	Ventil 2	6/3/1	1 byte	С	R	W	Т	U	percentage (0100%)	Low
■2 68	1.2-B Input, Feedback_	1-Byte Value			1 byte	С	R	W	Т	U	percentage (0100%)	Low
■2 71	1.3-A IO, Value_	1-Byte Value	Ventil 3	6/3/2	1 byte	С	R	W	Т	U	percentage (0100%)	Low
■2 72	1.3-B Input, Feedback_	1-Byte Value			1 byte	С	R	W	Т	U	percentage (0100%)	Low
■2 75	1.4-A IO, Value_	1-Byte Value	Ventil 4	6/3/3	1 byte	С	R	W	Т	U	percentage (0100%)	Low

Α

VISU



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VISU

	2 Description Widgets		
	Touch_IT V2		
A	2.4 Control Elemente		
V150	2.1 Control Elements		
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	2.2.3 2 Byte		
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	2.2.8 Light/ RGB Control		
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	Table 2B Identifier: Toggle Button		
	Table 2C Identifier: Incremental / Decremental Button		
	Table 2D Identifier: Timer / Scenes		
	Table 2E Identifier: Dimming RGB / HVAC		
	Table 2F Identifier: Alarm		

2 Description Widgets

The following section describes the usable widgets and their special parameterizing and displaying

2.1 Control Elements

2.1.1 Arrangement of the Control Elements

A maximum of 8 elements can be placed on a Touch_IT page.



After uploading the parameters, the pages will be formatted automatically.

If there is a smaller number of elements on a page, they will be maximized to the available surface (in case that the expand- settings (vertically and horizontally) are enabled).

2.1.2 Description of the Control Elements

Selecting and Presetting Control Elements

The selection of control elements is carried out through a parameterization within the ETS.

a) 1 Byte b) 1-Byte-Value-Picture-Button 0100% c) Normal d) No Ø) No Yes Image: Comparison of the second se
b) 1-Byte-Value-Picture-Button 0.100% c) Normal d) No Ø) No Yes 1 Ø) No Yes 1 Ø) No Yes 1 Ø) No Yes 1 BAD 1
C) Normal d) No Ø No Ø No Ø No Ves F) No Ves g) No Ø No Ves F) BAD
d) No Yes e) No Yes f) No Yes g) No Yes h) No Yes i) BAD
e) © No Ves f) No Ves g) © No Ves h) © No Ves i) BAD
f) No Yes g) No Yes h) No Yes i) BAD
g) No Yes h) No Yes i) BAD
h) No Yes i) BAD
i) bad
,
5 6 7 8

e7 / Subject to change

A V<u>ISU</u>

2.2 Object & Element Types

a) Object Types



b) Element Types

2.2.1 Element Types 1 Bit 1 Bit Object Type Element Type 1-bit-ON/OFF-Toggle-Text ~ None 1-bit-ON/OFF-Toggle-Text 1-bit-ON/OFF-Toggle-Pictures 1-bit-ON/OFF-Toggle-Text with Value А 1-bit-ON/OFF-Toggle-Pictures with Value 1-bit-ON/OFF-Text with Value 1-bit-ON/OFF-Pictures with Value В See Types TIMER 1-Bit-Value-Pushbutton 1-Bit-Timer-Profile 1-bit-Quad-ON/OFF-Status/Toggle-Text С 1-bit-Quad-ON/OFF-Status/Toggle-Picture 1-bit-Quad-Value-Pushbutton-Text D 1-bit-Quad-Value-Pushbutton-Picture

Content

A												
	Number	Name	Object Functio	Descriptior	Gr	Length	с	R	W	т	υ	Data Type
■ ‡	63	1.1-A IO, Switching_	Switch			1 bit	С	R	W	Т	U	switch
₽	64	1.1-B Input, Feedback_	Switch			1 bit	С	R	W	Т	U	switch

в

	Numbe	r Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
₽	63	1.1-A Output, Value_	1-Bit Value Button			1 bit	С	R	W	Т	U	1-bit
₽	64	1.1-B Output, Value B_	1-Bit Value Button			1 bit	С	R	W	Т	U	1-bit

С

-											
	Number	Name	Object Function	De Gr	Length	С	R	w	т	U	Data Type
;	63	1.1-A IO, Switching 1_	Switch		1 bit	С	R	W	Т	U	switch
	64	1.1-B IO, Switching 2_	Switch		1 bit	С	R	W	Т	U	switch
₹	65	1.1-C IO, Switching 3_	Switch		1 bit	С	R	W	Т	U	switch
∎‡	66	1.1-D IO, Switching 4_	Switch		1 bit	С	R	W	Т	U	switch

D

	Number	Name	Object Function	De G	re Length	с	R	w	т	U	Data Type
∎‡	63	1.1-A Output, Switching 1_	Switch		1 bit	С	R	W	т	U	switch
∎₹	64	1.1-B Output, Switching 2_	Switch		1 bit	С	R	W	Т	U	switch
∎‡	65	1.1-C Output, Switching 3_	Switch		1 bit	С	R	W	Т	U	switch
∎‡	66	1.1-D Output, Switching 4_	Switch		1 bit	С	R	W	Т	U	switch

A VISU

Content

2.2.2

Element Types 1 Byte



Α

	Number	Name	Object Function	De Gr	Length	С	R	W	т	U	Data Type
•₹	63	1.1-A IO, Value_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (0255)
∎₹	64	1.1-B Input, Feedback_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (0255)

в

Numb	er Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
■‡ 63	1.1-A IO, Value_	1-Byte Value			1 byte	С	R	W	Т	U	counter pulses (-128127)
■‡ 64	1.1-B Input, Feedback_	1-Byte Value			1 byte	С	R	W	Т	U	counter pulses (-128127)

С

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
∎‡ 6	3	1.1-A IO, Value_	1-Byte Value			1 byte	С	R	W	Т	U	percentage (0100%)
■ ‡ 6	64	1.1-B Input, Feedback_	1-Byte Value			1 byte	С	R	W	Т	U	percentage (0100%)

D

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
₹	63	1.1-A IO, Value_	1-Byte Value			1 byte	С	R	W	Т	U	angle (degrees)
ţ	64	1.1-B Input, Feedback_	1-Byte Value			1 byte	С	R	W	Т	U	angle (degrees)

Е

Numb	er Name	Object Function	De	Gre Length	С	R	w	т	U	Data Type
■‡ 63	1.1-A Output, Value_	1-Byte Value Button		1 byte	С	R	W	Т	U	8-bit unsigned value, 8-bit signed value
■‡ 64	1.1-B Output, Value B_	1-Byte Value Button		1 byte	С	R	W	Т	U	8-bit unsigned value, 8-bit signed value

Description Widgets

3,5" TFT Colour Touch Display

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Content

E	
-	

	Number	Name	Object Function De	e Gro	Length	с	R	w	т	U	Data Type
∎₹	63	1.1-A Input, Value 1_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (0255)
•₹	64	1.1-B Input, Value 2_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (0255)
•₹	65	1.1-C Input, Value 3_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (0255)
₽	66	1.1-D Input, Value 4_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (0255)

G

	Number	Name	Object Function	De Gr	Length	с	R	w	т	U	Data Type
∎‡	63	1.1-A Input, Value 1_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (-128127)
■₹	64	1.1-B Input, Value 2_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (-128127)
∎₹	65	1.1-C Input, Value 3_	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (-128127)
‡	66	1.1-D Input, Value 4	1-Byte Value		1 byte	С	R	W	Т	U	counter pulses (-128127)

н

	Number	Name	Object Function	De Gr	Length	С	R	w	т	U	Data Type
;	53	1.1-A Input, Value 1_	1-Byte Value		1 byte	С	R	W	Т	U	percentage (0100%)
₹	54	1.1-B Input, Value 2_	1-Byte Value		1 byte	С	R	W	Т	U	percentage (0100%)
‡	55	1.1-C Input, Value 3_	1-Byte Value		1 byte	С	R	W	Т	U	percentage (0100%)
‡	56	1.1-D Input, Value 4_	1-Byte Value		1 byte	С	R	W	Т	U	percentage (0100%)

ī

	Number	Name	Object Function De	e Gro	Length	С	R	W	т	U	Data Type
•₹	63	1.1-A Input, Value 1_	1-Byte Value		1 byte	С	R	W	Т	U	angle (degrees)
	64	1.1-B Input, Value 2_	1-Byte Value		1 byte	С	R	W	Т	U	angle (degrees)
∎₹	65	1.1-C Input, Value 3_	1-Byte Value		1 byte	С	R	W	Т	U	angle (degrees)
₹	66	1.1-D Input, Value 4_	1-Byte Value		1 byte	С	R	W	Т	U	angle (degrees)

2.2.3

Element Types 2 Byte



Α

	Number	Name	Object Function	De	Gr	Length	С	R	w	т	U	Data Type
₹	63	1.1-A IO, Value_	2-Byte Value		i	2 bytes	С	R	W	Т	U	pulses
¢.	64	1.1-B Input, Feedback_	2-Byte Value		i	2 bytes	С	R	W	Т	U	pulses

В



Description Widgets

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	Number	Name	Object Function De	e Gi	Length	с	R	W	т	U	Data Type
∎₹	63	1.1-A IO, Value_	2-Byte Value		2 bytes	С	R	W	Т	U	pulses difference
	64	1.1-B Input, Feedback_	2-Byte Value		2 bytes	С	R	W	Т	U	pulses difference

С

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
;	63	1.1-A IO, Value_	2-Byte Float Value			2 bytes	С	R	W	Т	U	2-byte float value
4	64	1.1-B Input, Feedback_	2-Byte Float Value			2 bytes	С	R	W	Т	U	2-byte float value

D

	Number	Name	Object Function	De (Gr	Length	С	R	w	т	U	Data Type
₹	63	1.1-A Output, Value_	2-Byte Value Button		2	2 bytes	С	R	W	Т	U	2-byte unsigned value, 2-byte signed value
₹	64	1.1-B Output, Value B_	2-Byte Value Button		2	2 bytes	С	R	W	Т	U	2-byte unsigned value, 2-byte signed value

Е

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
	63	1.1-A Output, Value_	2-Byte Float Value Button			2 bytes	С	R	W	Т	U	2-byte float value
₹	64	1.1-B Output, Value B_	2-Byte Float Value Button			2 bytes	С	R	W	Т	U	2-byte float value

2.2.4	Element Types 3 Byte		
		Time	
Object Type	3 Byte	- 23	3:59:58
Element Type	3-Byte-Time	•	
Element Size	None		
	3-Byte-Time	A Date	
	3-Byte-Date	в 20	0/03/20
Α			

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
■‡ 6	53	1.1-A IO, Time_	Time-Value			3 bytes	С	R	W	Т	U	time of day
■ ‡ e	54	1.1-B Input, Feedback_	Time-Value			3 bytes	С	R	W	Т	U	time of day

В

	Number	Name	Object Function	De	Gro	Length	с	R	w	т	U	Data Type
∎‡ 6	53	1.1-A IO, Date_	Date-Value			3 bytes	С	R	W	Т	U	date
∎‡ 6	54	1.1-B Input, Feedback_	Date-Value			3 bytes	С	R	W	Т	U	date

Content

Content

2.2.5	Element Types 4 Byte	
Object Type	4 Byte	↓ 4Byte-Slider
Element Type	4-Byte-Float-Text-Button	▼ 57.14
	None	
	4-Byte-Float-Text-Button	✓
	4-Byte-Float-Picture-Button	
	4-Byte-Float-Slider	
	4-Byte-Value-Pushbutton	
	4-Byte-Float-Value-Pushbutton	В

Α												
	Number	r Name	Object Function	De	Gr	Length	с	R	w	т	υ	Data Type
‡	63	1.1-A IO, Value_	4-Byte Float Value			4 bytes	С	R	W	Т	U	4-byte float value
•₹	64	1.1-B Input, Feedback_	4-Byte Float Value			4 bytes	С	R	W	Т	U	4-byte float value

в

	Number	Name	Object Function	De	Gr	Length	С	R	w	т	υ	Data Type
2	63	1.1-A Output, Value_	4-Byte Value Button			4 bytes	С	R	W	Т	U	4-byte unsigned value, 4-byte signed value
	64	1.1-B Output, Value B_	4-Byte Value Button			4 bytes	С	R	W	Т	U	4-byte unsigned value, 4-byte signed value

2.2.6

Element Types 14 Byte



A	Numbe	r Name	Object Function	De 0	Gre Lengt	n C	R	W	Т	U	Data Type
∎ ‡	63	1.1-A Output, String_	14-Byte String Button		14 byte	s C	R	W	Т	U	Character String (ASCII)

в

Numbe	er Name	Object Function	De G	r Length	с	R	w	т	U	Data Type
■‡ 63	1.1-A Input, String_	String Value		14 bytes	С	R	W	Т	U	Character String (ASCII)

Content

2.2.7

Element Types Scene Control



Α

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
∎₹	63	1.1-A Output, Scene Control 1_	Scene Control			1 byte	С	R	W	Т	U	scene control
	64	1.1-B Output, Scene Control 2_	Scene Control			1 byte	С	R	W	Т	U	scene control
∎₹	65	1.1-C Output, Scene Control 3_	Scene Control			1 byte	С	R	W	Т	U	scene control
₽	66	1.1-D Output, Scene Control 4_	Scene Control			1 byte	С	R	W	Т	U	scene control

в

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
■ ‡	63	1.1-A Input, Trigger_	Internal Scenes			1 bit	С	R	W	Т	U	start/stop
∎₹	64	1.1-B IO, Enable_	Internal Scenes			1 bit	С	R	W	Т	U	enable

2.2.8

Element Types Light / RGB Control

Object Type	Light/RGB Control
Element Type	RGB-Dimmer-A
	None
	RGB-Dimmer-A
	RGB-Dimmer-B
	RGB-Dimmer-C
	RGB-Dimmer-D



	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
₹	63	1.1-A Output, Red_	RGB-Dimmer			1 byte	С	R	W	Т	U	percentage (0100%)
₹	64	1.1-B Output, Green_	RGB-Dimmer			1 byte	С	R	W	Т	U	percentage (0100%)
₹	65	1.1-C Output, Blue_	RGB-Dimmer			1 byte	С	R	W	Т	U	percentage (0100%)
₹	66	1.1-D Output, White_	RGB-Dimmer			1 byte	С	R	W	Т	U	percentage (0100%)

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2.2.9

Element Type Dimmer Control



Α

	Number	Name	Object Function	De Gr	Length	с	R	w	т	U	Data Type
₹	63	1.1-A Output, ON/OFF_	4-Bit Dimmer		1 bit	С	R	W	Т	U	switch
4	64	1.1-B Input, ON OFF Feedback_	4-Bit Dimmer		1 bit	С	R	W	Т	U	switch
;	65	1.1-C Output, Dimming_	4-Bit Dimmer		4 bit	С	R	W	Т	U	dimming control
ب	66	1.1-D Input, Value Feedback_	Dimming Control		1 byte	С	R	W	Т	U	percentage (0100%)

в

	Number	Name	Object Function	De G	Length	С	R	w	т	U	Data Type
∎₹	63	1.1-A Output, ON/OFF_	8-Bit Dimmer		1 bit	С	R	W	Т	U	switch
∎‡	64	1.1-B Input, ON OFF Feedback_	8-Bit Dimmer		1 bit	С	R	W	Т	U	switch
∎₹	65	1.1-C Output, Value_	8-Bit-Dimmer		1 byte	С	R	W	Т	U	percentage (0100%)
₽	66	1.1-D Input, Value Feedback_	Dimming Control		1 byte	С	R	W	Т	U	percentage (0100%)

2.2.10

Element Type Shutter Control

Object Type
Element Type

Shutter-Blinds-Control-A	•
Shatter-Billius-Control-A	Ŧ
None Shutter-Blinds-Control-A Shutter-Blinds-Control-B Shutter-Blinds-Control-C	1



	Number	Name	Object Function	De	Gr	Length	с	R	W	т	U	Data Type
∎ ‡	63	1.1-A Output, LONG_	Shutter Control			1 bit	С	R	W	Т	U	up/down
∎₹	64	1.1-B Output, SHORT_	Shutter Control			1 bit	С	R	W	Т	U	up/down
∎₹	66	1.1-D Input, Position Feedback_	Shutter Control			1 byte	С	R	W	Т	U	percentage (0100%)

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Object Type Element Type A VISU

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2.2.11

Element Type HVAC Control



Α

	Number	Name	Object Function	De	Gr	Length	с	R	w	т	U	Data Type
∎‡	63	1.1-A Output, Protection Setpoint_	Thermostat Control			2 bytes	С	R	W	Т	U	temperature (°C)
∎‡	64	1.1-B Output, Night Setpoint_	Thermostat Control			2 bytes	С	R	W	Т	U	temperature (°C)
∎‡	65	1.1-C Output, Standby Setpoint_	Thermostat Control			2 bytes	С	R	W	Т	U	temperature (°C)
₹	66	1.1-D Output, Comfort Setpoint_	Thermostat Control			2 bytes	С	R	W	Т	U	temperature (°C)

В

	Number	Name	Object Function	De Gre Length	с	R	w	т	U	Data Type
₹	63	1.1-A Output, HVAC-Mode_	HVAC-Mode	1 byte	С	R	W	Т	U	HVAC mode
₽	64	1.1-B Input, Temperatur Feedback_	HVAC-Mode	2 bytes	С	R	W	Т	U	temperature (°C)

С

Numbe	er Name	Object Function	De	Gr	Length	с	R	W	т	U	Data Type
6 3	1.1-A IO, Switch Manual/Auto_	HVAC-Fan-Control		1	bit	С	R	W	Т	U	enable
■₹ 64	1.1-B IO, Fan Speed_	HVAC-Fan-Control		1	byte	С	R	W	Т	U	percentage (0100%), fan stage (0255)

2.2.12

Element Type Timer

Object Type Element Type

Timer	•	
Alarmclock	•	
None		
Alarmclock	~	
Alarmtimer		
Astroclock		
1-Bit-Timer-Profile		
1-Byte-Timer-Profile 0100%		EF
1-Byte-Timer-Profile 0255		
1-Byte-Timer-Profile-HVAC		G
2-Byte-Float-Timer-Profile		





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A				
	Number *	Name	Object Function	De Gri Length C R W T U Data Type
‡	53	1.1-A Output, Alarmclock_	Alarmclock	1 bit C R W T U alarm
∎≵∣	54	1.1-B IO, Alarmclock Enable_	Alarmclock	1 bit C R W T U enable
D	Number *	Name	Object Function	De Gr Length C R W T U Data Type
∎₹	63	1.1-A Output, Timer_	Timer	1 bit C R W T U switch
∎‡	64	1.1-B IO, Timer Enable_	Timer	1 bit C R W T U enable
с				
	Number *	Name	Object Function	De Gri Length C R W T U Data Type
₽	63	1.1-A Output, Timer_	Astroclock	1 bit C R W T U switch
	64	1.1-B IO, Timer Enable_	Astroclock	1 bit C R W T U enable
D	Number *	Name	Object Function	De Gri Length C R W T U Data Type
	63	1.1-A Output, Profile_	1-Bit Profile	1 bit C R W T U switch
∎‡	64	1.1-B IO, Profile Enable_	Profile	1 bit C R W T U enable
Е	Number	News	Object Exaction	De Cellemente C. D. W. T. H. Dete Ture
	Number -	Name	1 Dute Draftle	De Gri Length C R W I O Data Type
	55	I.I-A Output, Profile_	I-Byte Profile	I byte C K W I U percentage (0100%)
<i>4</i> 2	64	11-B IO Profile Enable	Profile	1 bit C R W T U enable
■4 ■2 F	64 Number *	1.1-B IO, Profile Enable_	Profile Object Function	1 bit C R W T U enable De Gr Length C R W T U Data Type
= ₹ 0 ₹ 0 ₹ 0	64 Number *	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_	Profile Object Function 1-Byte Profile	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255)
- ₹ 	Number * 53	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_	Profile Object Function 1-Byte Profile Profile	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable
=4 =≠ =≠ =≠ =≠ G	Number * 53 54	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_	Profile Object Function 1-Byte Profile Profile	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable
=	Number * 53 54 Number *	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_ Name	Profile Object Function 1-Byte Profile Profile Object Function	Ibit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable
F G	Number * 53 54 Number * 63	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_	Profile Object Function 1-Byte Profile Profile Object Function 1-Byte Profile	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable De Gr Length C R W T U pata Type 1 bit C R W T U pata Type 1 byte C R W T U pata Type
F G T	Number * 53 54 Number * 63 64	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_	Profile Object Function 1-Byte Profile Profile Object Function 1-Byte Profile Profile	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable De Gr Length C R W T U pata Type 1 bit C R W T U pata Type 1 bit C R W T U pata Type 1 bit C R W T U pata Type 1 bit C R W T U pata Type
F G G	Number * 53 54 Number * 63 64	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_	Profile Object Function 1-Byte Profile Profile Object Function 1-Byte Profile Profile	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable
=4 =4 =4 =4 =4 =4 =4 =4 =4 =4 =4 =4 =4 =	Number * 53 54 Number * 63 64	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_	Profile Object Function 1-Byte Profile Profile Object Function 1-Byte Profile Profile	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable
₩ F ₩ ₩ G ₩ H	Number * 53 54 Number * 63 64 Number *	1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_ Name 1.1-A Output, Profile_ 1.1-B IO, Profile Enable_ Name Name Name Name Name Name Name	Profile Object Function 1-Byte Profile Profile Object Function 1-Byte Profile Profile Object Function	1 bit C R W T U enable De Gr Length C R W T U Data Type 1 byte C R W T U counter pulses (0255) 1 bit C R W T U enable 1 bit C R W T U pata Type 1 bit C R W T U pata Type 1 bit C R W T U pata Type 1 bit C R W T U enable

2.2.13

■₹ 64

Element Type Datalogging

Profile

Object Type
Element Type

1.1-B IO, Profile Enable_

Datalogging	-
Telegrams	-
None	
Telegrams	 ✓
Line-Graph	
Bar-Graph	

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1 bit C R W T U enable

Content

2.3

Elements Attribute Assignments

Element Size	C) Normal
Interactive	d) 🔿 No 🔘 Yes
Use Element PIN	e) O No Ves
Align steps	f) 🕖 No 🔘 Yes
Expand horizontal	g) 🔘 No 🕖 Yes
Expand vertical	h) 🔘 No 🕖 Yes
Name [;Format]	i)

2.3.1. Element Size etc.

C) Size

Determines, which element size is used. There are 4 sizes available (Small, Normal, Large, X-Large).

The fine adjustment of the **fonts** can be carried out directly via the Touch_IT.

The sizes corresponding with the Icon Sizes (18/28/48/88px) special size 128px. (only internal icons)



Subsequently, various presets can be adjusted.

d) interactive

YES: Element is used as a display with a control element. NO: Control element is solely used as a display.

e) Use Element PIN

YES: protect control element with a PIN

f) Align Steps

Round value up or down to a multiple of the stepwidth.

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13:43:34

52.5%

On

Sun 23:01->On

g) Expand Horizontal

Maximize control element horizontally.

f) Expand Vertical

Maximize control element vertically.



2.3.2

Element name, Format

Element name : This name appears top/left of the widget

Element name = ELEMENT 1



Format : Different identifiers (see Table 2A,2B,2C,2D,2E) allow the assignment of values as well as the desired design of the appearance of the elements according to the respective data type of the widget.

ELEMENT 11;ICO=DINING;IMGVAL=LIGHT2;MIN=0;MAX=255;STEPS=3 (see more Table2)



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Content

Table 2 - Listing of Identifiers and Elements

01 1-Bit Elements

	Element	Element Type
Image	Range	Format
1Bit-Toggle-T	1	1-bit-ON/OFF-Toggle-Text
EIN	0/1	B0,B1,AL,AH,NOBG,LOGIC,BSWAP, RDRQ,PIN
1Bit-Toggle-P	2	1-bit-ON/OFF-Toggle-Picture
\bigcirc	0/1	IMGSET,AL,AH,NOBG,LOGIC,BSWAP, RDRQ,PIN
1Bit-Toggle-T	3	1-bit-ON/OFF-Toggle-Text with Value
AUS AUS	0/1	W,L0,L1,B0,B1,AL,AH,NOBG,LOGIC,BSWAP, LSWAP,RDRQ,PIN
1Bit-Toggle-P	4	1-bit-ON/OFF-Toggle-Picture with Value
Ŷ V	0/1	W,L0,L1,B0,B1,AL,AH,NOBG,LOGIC,BSWAP,LSWAP,RDRQ,PIN
1Bit-T	5	1-bit-ON/OFF-Text with Value
AUS AUS AN	0/1	W,L0,L1,B0,B1,AL,AH,NOBG,LOGIC,BSWAP, LSWAP,RDRQ,PIN
1Bit-P	6	1-bit-ON/OFF-Picture with Value
	0/1	W;B0,B1,IMGSET,AL,AH,NOBG,LOGIC, BSWAP,LSWAP,RDRQ,PIN
		Example: ELEMENT 6 ;IMGSET=LIGHT
1Bit	40	1-Bit-Value-Pushbutton
G	0/1	IMG, ,RELEASE,PRESS,LABEL,NOBG,JUMP,LOGIC,LOGICR,PIN
ELEMENT 40		Examples: ELEMENT 40 ;PRESS=1 ;IMG=BELL_b_on
STC	P	;RELEASE=1; LABEL=STOP
4x1Bit-T	85	1-bit-Quad-ON/OFF-Status/Toggle-Text
OFF ON ON OFF	4x 0/1	LABELS,N,W,NOBG,ALARM,RDRQ,PIN
4x1Bit-P	86	1-bit-Quad-ON/OFF-Status/Toggle- Picture
	4x 0/1	IMGSETS,N,W,NOBG,ALARM,RDRQ,PIN
		Example: ELEMENT 86 ;IMGSETS=BELL,AL,LIGHT3 ;N=3
4x18it-T	87	1-bit-Quad-Value-Pushbutton-Text
OFF ON ON OFF	4x 1	LABELS,N,W,NOBG,PRESS,PIN
4x18it-P	88	1-bit-Quad-Value-Pushbutton-Picture
	4x 1	IMGSETS,N,W,NOBG,PRESS,PIN
		Default: IMGSETS=ONOFF ;PRESS=1,0,1,0 Example : IMGSETS=window,door; N=2 ;PRESS=0,1

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02 1-Byte Elements

	Element	Element Type
Image	Range	Format
1Byte-Text	10	1-Byte-Value-Text-Button 0 255
DOWN 255 UP	0 255	W,B-,B+,PF,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
DOWN	0 UP	Default: ;B+=UP;B-=DOWN;MIN=0;MAX=255;STEPS=37;REP=1000;
1Byte-Picture	11	1-Byte-Value-Picture-Button 0 255
255 +	0 255	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG,REP,IMGVAL,RDRQ,PIN
	255 🕂	Default: ;IMGSET=PLUSMINUS; MIN=0;MAX=255;STEPS=37;REP=1000;
1Byte-Slider 255	12	1-Byte-Value-Slider 0 255
+	0 255	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,
ELEMENT 12 20	(100)	EXAMPLE:(expand Horizontal) ELEMENT 12 ;ICO=SOUND ;W=200 ;MIN=20 ;MAX=100 ;REP=500
1Byte-Pictu	13	1-Byte-Value-Text-Button -128 127
DOWN 128 UP	-128 127	W,B-,B+,PF,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
1Byte-Picture	14	1-Byte-Value-Picture-Button -128 127
128 +	-128 127	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG,REP,IMGVAL,RDRQ,PIN
1Byte-Slider -128	15	1-Byte-Value-Slider -128 127
+ +	-128 127	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
1Byte-Text	16	1-Byte-Value-Text-Button 0 100%
DOWN 100 % UP	0255	
18vte-Picture	17	W,B-,B+,PF,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
100 %	0 255	
1Byte-Slider	19	vv,PF,IIVIGSET,STEPS,MIN,MAX,AL,AH,NOBG,REP,IMGVAL,RDRQ,PIN
100 %	0 255	
	0200	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
1Byte-Text	19	1-Byte-Value-Text-Button 0 360°
DOWN 360 ^c UP	0 255	W B- B+ PE STEPS MIN MAX AL AH NORG REP RDRO PIN
1Byte-Picture	20	1-Byte-Value-Picture-Button 0 360°
— 360° +	0 255	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG.REP.IMGVAL.RDRQ.PIN
1Byte-Slider	21	1-Byte-Value-Slider 0 360°
	0 255	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN

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Appendix – Table 1 3,5" TFT Colour Touch Display Touch_IT V2

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	Element	Element Type
Image	Range	Format
1Byte	41	1-Byte-Value-Pushbutton
G	0 255	IMG,PRESS,RELEASE,LABEL,NOBG,JUMP, LOGIC,LOGICR,PIN
1Byte-Timer	63	1-Byte-Timer-Profile 0 100%
- B 100 % +	0 255	W,PF,MIN,MAX,STEP,OVRTO,NOBG,IMG, RDRQ,PIN,PPIN
1Byte-Timer	64	1-Byte-Timer-Profile 0 255
- (1) 233 +	0 255	W,MIN,MAX,STEP,OVRTO,NOBG,IMG, RDRQ,PIN,PPIN
4x1Byte	89	1-Byte-Quad-Value/Change 0 255
100 lux 80 lux 255 lux	4x (0 255)	W,PF,N,RDRQ
4x1Byte	90	1-Byte-Quad-Value/Change -128 127
-58 -128 127 80	4x (-128 127)	W,PF,N,RDRQ
4x1Byte	91	1-Byte-Quad-Value/Change 0 100%
35 N 25 N 135 N	4x (0 255)	W,PF,N,RDRQ
4x1Byte	92	1-Byte-Quad-Value/Change 0 360°
26° 360° 279° 180°	4x (0 255)	W,PF,N,RDRQ

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03 2-Byte Elements

	Element	Element Type
Image	Range	Format
28yte-Text DOWN 65535 UP	22	2-Byte-Value-Text-Button 0 65535
	0 65535	W,B-,B+,PF,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
ELEMENT22_Water limit	440 liter Up	ÒŠÒT ÒÞVGG_Water limit LIÔUMDÜÜŐŒ/QJÞLÍ/ØMã∕r¦LT Q⊧M €€LT Œ∕M €€LÌVÒÚÙMG€
2Byte-Slider 65535 	23	2-Byte-Value-Picture-Button 0 65535
	0 65535	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
	24	2-Byte-Value-Slider 0 65535
	0 65535	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
28yte-Text DOWN -32768 UP	25	2-Byte-Value-Text-Button -3276832767
	-32768 32787	W,B-,B+,PF,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
28yte-Picture -32768 +	26	2-Byte-Value-Picture-Button -3276832767
	-32768 32787	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG,REP,RDRQ,PIN
ELEMENT26_Temperature	-267 °C +	ELEMENT26_Temperature limit ;ICO=RTR_PROTECTION_b;PF=°C;MIN=-270;MAX=260;STEPS=10
28yte-Slider -32768	27	2-Byte-Value-Slider -32768 32767
	-32768 32787	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,PIN
28yte-Text DOWN 2.55°C UP	30	2-Byte-Float-Text-Button
	-671088.64 670760,96	W,B-,B+,PF,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,DC,PIN,*
2Byte-Picture	31	2-Byte-Float-Picture-Button
	-671088.64 670760,96	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,DC,PIN,*
ELEMENT32_Setpoint	21.9°C	ELEMENT32_Setpoint ;ICO=TEMPERATURE;PF=°C;MIN=15;MAX=25;STEPS=90;DC=1
28yte-51ider 66.67 +	32	2-Byte-Float-Slider
	-671088.64 670760,96	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,DC,PIN,*
2Byte	42	2-Byte-Value-Pushbutton
	0 65535	IMG,PRESS,RELEASE,LABEL,NOBG,JUMP, LOGIC,LOGICR,PIN
28yte	43	2-Byte-Float-Value-Pushbutton
	-671088.64 670760,96	IMG,PRESS,RELEASE,LABEL,NOBG,JUMP, LOGIC,LOGICR,PIN
ELEMENT43_SEND_28yte_default ICON		ELEMENT43_SEND_2Byte_default ICON
2Byte-Timer 22.00°C MON 20:15 > 22.00°C +	66	2-Byte-Float-Timer-Profile
	-671088.64 670760,96	W,PF,MIN,MAX,STEP,OVRTO,NOBG,IMG,RDRQ,PIN,PPIN

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04 3-Byte Time / Date Elements

	Element	Element Type			
Image	Range	Format			
Time	50	3-Byte-Time			
23:59:58	Time	LONG,NOBG,ACTUAL,RDRQ,PIN			
Date	51	3-Byte-Date			
20/03/20	Date	LONG,NOBG,ACTUAL,RDRQ,PIN			

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05 **4-Byte Elements**

	Element	Element Type		
Image	Range	Format		
4Byte-Text	33	4-Byte-Float-Text-Button		
3.00°C	IEEE 754	W,B-,B+,PF,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,DC,PIN,*,INT,UINT		
4Byte-Picture	34	4-Byte-Float-Picture-Button		
- 3.00 +	IEEE 754	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,DC,PIN,*,INT,UINT		
4Byte-Slider 57.14	35	4-Byte-Float-Slider		
	IEEE 754	W,PF,IMGSET,STEPS,MIN,MAX,AL,AH,NOBG, REP,RDRQ,DC,PIN,*,INT,UINT		
4Byte	44	4-Byte-Value-Pushbutton		
C	IEEE 754	IMG,PRESS,RELEASE,LABEL,NOBG,JUMP, LOGIC,LOGICR,PIN		
4Byte	45	4-Byte-Float-Value-Pushbutton		
\bigcirc	IEEE 754	IMG,PRESS,RELEASE,LABEL,NOBG,JUMP, LOGIC,LOGICR,PIN		

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06 14-Byte Elements

	Element	Element Type				
Image	Range	Format				
14Byte	46	14-Byte-String-Pushbutton				
	14 Byte	IMG,PRESS,RELEASE,LABEL,NOBG,JUMP, LOGIC,LOGICR,PIN				
14Byte	52	14-Byte-String				
Hallo Welt	14 Byte	NOBG.TEXT.RDRQ				

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Scene Elements

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	Element	Element Type		
Image	Range	Format		
Scene-RS	55	Scene-Control-Recall-Save		
RS1 RS2 RS3 RS4	063	TO,N,IMAGES,LABELS,SCENES,MOD, NOBG,PIN,PPIN		
Scene-R	56	Scene-Control-Recall-Only		
R1 R2 R3 R4	063	TO,N,IMAGES,LABELS,SCENES,MOD, NOBG,PIN		
Scene-S	57	Scene-Control-Save-Only		
S1 S2 S3 S4	063	TO,N,IMAGES,LABELS,SCENES,MOD, NOBG,PIN		
Internal Scenes	58	Internal-Scene		
		SELECT,NOBG,ONSTART,SCGRP,TRIGINV, IMG,PLAYONLY,PLAYSTOP		

Element No. 55

TO,N,MOD,Nx,Sx (x = 1..4),NOBG,PIN,PPIN

Element No. 56

N,MOD,Nx,Sx (x = 1..4),NOBG,PIN

Element No. 57

N,MOD,Nx,Sx (x = 1..4),NOBG,PIN

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08 RGB Elements

	Element	Element Type		
Image	Range	Format		
RGB-A	76	RGB-Dimmer-A		
- ** +	4x (0 255)	W,STEPS,IMGSET,B-,B+,NOBG,RGBH,RGBW, RDRQ,PIN		
RGB-B	77	RGB-Dimmer-B		
63% +	4x (0 255)	W,STEPS,IMGSET,B-,B+,NOBG,RGBH,RGBW, RDRQ,PIN		
RGB-C	78	RGB-Dimmer-C		
— 81 % +	4x (0 255)	W,STEPS,IMGSET,B-,B+,NOBG,RGBH,RGBW, RDRQ,PIN		
RGB-D	79	RGB-Dimmer-D		
90% +	4x (0 255)	W,STEPS,IMGSET,B-,B+,NOBG,RGBH,RGBW, RDRQ,PIN		

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09 Dimmer Elements

	Element	Element Type		
Image	Range	Format		
4-Bit-Dimmer	70	4-Bit-Dimmer-Start-Stop		
	0 15	W,B-,B+,STEP,REP,TO,IMGSET,NOBG, RDRQ,PIN		
4-Bit-Dimmer ↓ 63 % ↓ ↑	71	4-Bit-Dimmer-Repeat		
	0 15	W,B-,B+,STEP,REP,TO,IMGSET,NOBG, RDRQ,PIN		
8-Bit-Dimmer	72	8-Bit-Dimmer-Repeat		
	0 255	W,B-,B+,STEP,REP,TO,IMGSET,NOBG, RDRQ,PIN		

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10 Shutter-Blinds Elements

	Element	Element Type
Image Range		Format
Blindcontrol A	73	Shutter-Blinds-Control-A
≣ ↑ 75 % ≣ ↓	0/1	W,B-,B+,REP,TO,IMGSET,NOBG, RDRQ,PIN
Blindcontrol B	74	Shutter-Blinds-Control-B
≣ ↑ 65 % ≣ ↓	0/1	W,B-,B+,REP,TO,IMGSET,NOBG, RDRQ,PIN
Blindcontrol C	75	Shutter-Blinds-Control-C
≣ ↑ 44 % ■ ↓	0/1	W,B-,B+,REP,TO,IMGSET,NOBG, RDRQ,PIN

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11 **HVAC Elements**

	Element	Element Type			
Image	Range	Format			
HVAC-Setpoint-Control	80	HVAC Setpoint-Control			
	-671088.64 670760,96	W,TO,DC,STEP,T,MIN,MAX,NOBG,MASK, INTERN,RDRQ,PIN			
HVAC-Mode-Control	81	HVAC Mode-Control			
✓ (À) 21.0°C	04	W,NOBG,MASK,INTERN,TSET RDRQ,PIN			
HVAC-Mode-Control	82	HVAC Mode-Control-Text			
auto 35.0°C	04	W,NOBG,MASK,INTERN,TSET, RDRQ,PIN			
HVAC-Fan-Control	83	HVAC-Fan-Control			
* - 🛞 +	0 255	W,NOBG,STEPS,FANSTAGE			
1Byte-Timer	65	1-Byte-Timer-Profile HVAC			
	0 255	W,OVRTO,NOBG,IMG,RDRQ,PIN,PPIN			

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12 **Overview Time / Date Elements**

	Element	Element Type
Image	Range	Format
Clock	60	Alarmclock
08:15	0/1	W.ALTO.SILENT.NOBG.RDRQ.PIN.PPIN
Timer	61	Alarmtimer
00:59	0/1	W ALTO SILENT NOBG RDRO PIN PPIN
	I	
Astroclock	59	Astroclock
02:00	0/1	
1Bit-Timer		
	62	1-Bit-Timer-Profile There are also different timer profiles
1Byte-Timer		
	63	1-Byte-Timer-Profile 0 100%
- C 255 +	64	1-Byte-Timer-Profile 0 255
2Byte-Timer		
- (b) 22.00°C MON 20:15 > 22.00°C +	66	2-Byte-Float-Timer-Profile
	1	
1Byte-Timer		
	65	1-Byte-Timer-Profile HVAC

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13 Datalogging

	Element	Element Type
Image	Range	Format
Telegrams	95	Telegrams
Telegrams		OBJS,LABEL,PIN
Line-Graph	96	Line-Graph
Diagram		DGRM,LABEL,PIN
Bar-Graph	97	Bar-Graph
Diagram		DGRM,LABEL,PIN

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Appendix – Table 2A 3,5" TFT Colour Touch Display Touch_IT V2

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Table 2A

Identifier	assign in CAPITAL LETTERS		
Format		DEFAULT / EXAMPLE	
ICO	Defines an Icon which appears on left side of the Widget	ICO=TERRACE	ELEMENT 1 ;ICO=TERRACE ;LABEL=CLOSE
тс	Text color in widget	TC = #404404	NOBG eliminates the button's surface and the
BFONT	Userdefined Font size on Button	BFONT=16	display is visualized directly on the background.
LFONT	Userdefined Font size on Label	LFONT=16	
BCOL	Text color on Button	BCOL=GREEN	NOBG
LCOL	Text color on Label	LCOL=#196F3D	
NOBG	No button background		
IMG	Choosing an image (icon) for pushbutton	IMG=SEND	For 1-Blt Pushbutton Default value : PRESS = 1
LABEL	Text default for button	LABEL= send off	
PRESS	Value that will be sent when pressing button		JUMP changes to Page n (JUMP=3 > landing page is page3)
RELEASE	Value that will be sent when releasing button		Using LOGIC, LUA functions can be activated or manually incorporated in a LUA syntax-based logical function which is triggered when pressing
JUMP	Command to jump to any page	JUMP=3	the button.
LOGIC	Function call or direct incorporation of a logical function		manually incorporated in a LUA syntax-based logical function which is triggered when releasing the button
LOGICR	Function call or direct incorporation of a logical function		Quad elements (Pushbutton)
N	Number of buttons displayed (up to N=4)	;N=3	1 Bit Value ;PRESS =1,0,1
PRESS/ RELEASE	Value can be set for each Quad element		1 Byte Value with POP UP
LABELS	Labeling of Buttons with Text	;LABELS =1,2,3	*** 24 ^ +
J(N)	Command to jump to any page	;J1=2;J2=4	× ✓
PIN	In case "Use PIN" is selected, an individual password can be assigned using PIN		;J1=1;J2=4 Pushbutton 1 > jump to page1 Pushbutton 2 > jump to page4 Using PIN , an individual password can be assigned. If "Use PIN" is selected, the default master password will be used in case PIN is not set.



TABLE 2B

ld	dentifier :	TOGGLE BUTTON		
!	Identifier assign in CAPITAL LETTERS			
F	ormat		DEFAULT / EXAMPLE	\rightarrow
v	V	Determines width of button/display surface		Display area Button area W defines the relation between Display- and Button-area. W = 40 (Standard) sets Display area = Button area W >40 (Standard) sets Display area > Button area
11	MGSET	Choosing set of images	IMGSET=LIGHT	ON/OFF Toggle Button IMGSET defines the use of ICONS in Buttons and Labels
B	30	Text for button on "0"	B0=OFF	IMGSET=LIGHT (PNG-TILES)
В	31	Text for button on "1"	B1=ON	
L	.0	Text for display on "0"	L0=OFF	
L	.1	Text for display on "1"	L0=ON	LIGHT I off LIGHT I on LIGHT b off LIGHT b on
В	BSWAP	Switch between display of the current state and the subsequent state (button)		
L	.SWAP	Switch between display of the current state and the subsequent state (display)		RDRQ sent a read request at start-up for the used widgets.
F	RDRQ	Read Request		This parameter only works when Communication Address and Receive Flag are set.
А	AL.	Alarm lower limit		AL/AH They serve as a limit setting the temporal point from which an alarm is detected
А	λH	Alarm upper limit		
I	MGSETS	Labeling of Buttons in a Quad element with Imagesets	only	Quad elements (TOGGLE BUTTON)
A	ALARM	Occurs when the transition from "0"to"1"		;IMGSETS=BELL,AL,LIGHT3;N=3;ALARM



TABLE 2C

Identifier :	INCREMENTAL / DECREMENTAL	BUTTON	
Identifier	assign in CAPITAL LETTERS		
Format		DEFAULT / EXAMPLE	— +
IMGSET	Choosing set of images for up&down	IMGSET=PM	PM_down.png PM_up.png
IMGVAL	measured value-oriented image incorporation	IMGVAL=LIGHT	LIGHT_0 LIGHT_85 LIGHT_170 LIGHT_255 Use B - and B + to determine the on
B+	Text for button on incrementing	B+= UP	increasing and decreasing Buttons
В-	Text for button on decrementing	B-= DOWN	Using PF , a unit of measurement can be adjusted according to the measured value.
PF	Declaration of the unit	PF=°C	2 Byte Value Float > PF=°C is predefined eleminating PF set PF=
STEPS	Setting step quantity	STEPS=3	DC defines the displayed decimal places.
MIN	Setting of lower limit	MIN=0	Use * to determine a multiplication factor.
MAX	Setting of upper limit	MIN=255	adjusting the value between MIN and MAX.
REP	Setting repetition rate		REP When pressing the buttons a little longer, REP sets the interval
DC	Number of displayed decimal places	DC=2	by which the values are sent. (in milliseconds)
*	Multiplication factor		Using INT the number range can be changed from floating point (float) to
INT	Shift of number range to integer		integers (integer).
UINT	Shift of number range to unsigned integer		Using UINT the number range can be changed from floating point (float) to unsigned integers (unsigned Integer).

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TABLE 2D

Identifier :	TIMER / SC	ENES	
Identifier	assign in CAPITAI	LETTERS	
Format			OVRTO determines the span of time, after which the
OVRTO	Determines the time (in minutes) until manual settings are overwritten		settings made manually by the user are overwritten by the values set in the time table. (in minutes)
LONG	Activating weekda	ny statement	Use LONG to add weekday to time.
ACTUAL	Visualising interna	al time	communication objects)
ТО	Time allowance in	ms for input analysis	Using TO , it is possible to determine from what point onwards (in milliseconds) the manual input is interpreted as holding the button down.)
			Using MOD , the output control can be adjusted.
SCENES	Determination of l	ocations in use	SINGLE: Displayed buttons communicate via Scene Control 1. SC2-SC4 have no functions.
MOD	Setting output par	ameters	DIFF: Displayed buttons communicate via the
	SINGLE	Saving and activation via SC1	corresponding Scene Control objects. DUAL: Displayed buttons communicate via SC1 and SC2
	DUAL	Saving control via SC2 and retrieving control via SC1	Use SC1 to retrieve and SC2 to save scenes. SC3- SC4 have no functions.
	DIFF	SC1SC4 are working independently	SELECT limits the internal used object by their object number.
SELECT			With ONSTART , an automatic start at Power or when the power returns are initiated.
			-
ONSTART	response to Powe	r On	SCGRP =a : a = 1 16 defines a group of scenes. If one of the scenes in this goup is enabled all other scenes
SCGRP	group of scenes		are stopped.
TRGINV	Inverts the trigger	function	IMG : image to set in front of the start-button.
IMG	picture to the left edge		BLAYONI V anhythe play butter is disclosed Otar (1)
PLAYONLY	play only operate		only by the bus with trigger or enable.
PLAYSTOP	without Pause but	ton	PLAYSTOP , the play and stop button will be displayed. The pause button is hidden.

3,5" TFT ColourTouch Display

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TABLE 2E

Identifier a	assign in CAPITAL LETTERS	Using parameter RGBH , channel 4 (White)
Format		transmits the brightness value, and channels 1-3 determine the colour.
RGBH	RGB + brightness	(only for RGB illuminants that support this feature)
RGBW	RGB + white	White). Using this channel, an additional white LED can be gated.
		RDRQ sent a read request at start-up for the used widgets. This parameter only works when
RDRQ	Read Request	Communication Address and Receive Flag are set.
то	Setting, after how much time, expressed in seconds the display	Using TO , you can determine after how much time the display returns to its standard position.
	returns to its standard position	DC defines the displayed decimal places.
DC	DC Number of displayed decimal places	STEP determines the step size for adjusting the value between MIN and MAX. Use T to initialize the temperatures
STEP	Setting step size	MIN determines lower limit of the respective temperatures (Syntax: MIN=T1:T2:T3:T4)
т	T Initialization values for temperatures	MAX determines upper limit of the respective temperatures (Syntax: MAX=T1:T2:T3:T4)
TSET	Shifting set point	The masking will be conducted as follows:
MIN	Default setting of temperature's lower limit	sequence: MASK=Protection:Night:StandBy:
MAX	Default setting of temperature's upper limit	Comfort:Automatic In case the internal control is used and the selection for the Toruch IT is activated a communication via
MASK	Masking displayed buttons	GA is unnecessary, as soon as INTERN is set. TSET changes the display of the control element.
INTERN	Direct connection with internal RTR	Use it only in combination with INTERN. Use it to raise or to lower the comfort temperature.
OVRTO	Determines the time (in minutes) until manual settings are overwritten	adjustment range.) OVRTO determines the span of time, after which the
STEPS	Setting step quantity	settings made manually by the user are overwritten by the values set in the time table. (in minutes)
FANSTAGE	Controlling ventilation with STEPS	HVAC FAN – Control default is STEPS=3 Example: FANSTAGE;STEPS=4
		ran Speed > 25% 50% 75% 100%

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	3 System Settings and Customizing
^	Touch_IT V2
A visu	3.1 Settings and Defaults
	3.1.2 Time and date
	3.1.3 Standby
	3.1.4 Audio Signals
	3.1.5 Fonts
	3.1.6 System & SD-Card
	3.1.7 Layouts & language
	3.2 Screensaver
	3.2.1 Default
	3.2.2 Internal Settings on Device
	3.2.3 Additional Identifiers in ETS General Settings
	Appendix
	Table 3A Additional Identifier: Screensaver
	3.3 Custom Properties
	3.3.1 General
	3.3.2 User Defined
	3.4 Update Tool
	3.4.1 Software Installation
	3.4.2 Driver Installation
	3.4.3 Service Tool
	Appendix
	Table 3B Internal Icons

А

3.1 System Settings

The sensitive area foe switching in settings is placed top/middle in headline of the first page.

3.1.1 Main



3.1.2 Time & Date





3.1.3 Standby



Content

3.1.4 Audio Signals

The operation sound and the volume of the alarm sound can be defined individually. Volume of click and alarm can vary within the scope of 0 to 10.	Button click volume 5 Click frequency 5
The frequency of the operation sound can set between 100 and 8000 Hz. The duration or running time of the operation sound can be adjusted within the scope of 10 to 300 ms.	Click length (ms) 20 Alarm volume 10 Cancel OK

Content

3.1.5 Fonts

The element sizes that are selectable in the ETS			⊦ Widget font small	Frame font
can be freely parameterized.			AaBb01	AaBb01
ETS (Element Size)	\leftrightarrow	Touch_IT	Widget font normal	Page name font
Small	\leftrightarrow	small	AaBb01	AaBb01
Normal	\leftrightarrow	normal	- Widget font large	- Monu font
Large	\leftrightarrow	large		
X-Large	\leftrightarrow	extra large	AaBb01	AaBb01
It is also possible to cha	ange		Widget font x-large	Time & Date font
 Frame label Page name Menu label The alterable parameters are Type face Type form Type size 			Liberation Not	Cancel OK
			Cancel OK	

3.1.6 System & SD Card



Content

3.1.7 Language / page header / screensaver



A VISU

3.2 Screensaver

3.2.1 Default



X=203	Y= 11	W=101
X=215	Y=121	W= 75
X= 28	Y=157	W=167
X= 28	Y=201	W= 78
	X=203 X=215 X= 28 X= 28	X=203Y= 11X=215Y=121X= 28Y=157X= 28Y=201

3.2.2 Internal settings on device



You can activate the individual componnents.

The sidehow_seconds_ parameter determines how long an image is displayed.

If slideshow_seconds = 0 > only one image of the set is shown as a static screen.

Size and coordinates of the activated components can be determined with Additional indentifiers in the ETS application

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Content

3.2.3 Additional indentifiers in ETS general settings

General			
	Page scheme		S Pages / 1 Alarm Page 🔘 6 Pages
	Global format identifie	ers	;MTYPE=1
	Additional identifiers		SCRBG=#365D6B
Analog Clock		SCRACLK	
Digital Clock		SCRDCLK	
Date		SCRDATE	
Actual (HVAC)) temperature	SCRTEMP	
Selectable Dis	play_object	SCROBJ	(object must be linked in KNX-Bus)
Color of the Ba	ackground	SCRBG	(covers loaded background images)
Color of Textarea		SCRTXTBG	
Time in secon	ds	SLIDETIME	(overwrites the time in the display setting

There are different attributes to describe and place the objects on the screen see Appendix Table 3A



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Appendix - Table 3A 3,5" TFT Colour Touch Display Touch_IT V2

TABLE 3A

Additional lo	dentifier	: SCREENSAVER	
Identifier as	sign in CA	PITAL LETTERS	0 X
IDENTIFIER1	=[A1,A2,.]; IDENTIFIER2=[A1,A2,];NEXT	
	IDENTIF	FIER=ATTRIBUTE1, ATTRIBUTE2,	11 12 1 2
	ATTRI	BUTE	9 8 7 6 5 4
	color	Textcolor RED, GREEN; LIGHTGREYetc or #RRGGBB	Y W
	x,y	Coordinates of Images and Texts in pixel	13:35:12
	w	Width of Images & Texts in pixel	SCRBG=#365D6B
SCRBG	Color of images SCRB RED, O or #RR	f the Background (covers loaded :) 3 = color GREEN; LIGHTGREYetc GGBB	;SCRACLK=125,125,90 ;SCRDCLK=125,200,90,#B1AEAF
SCRACLK	Analog SCRA0 SCRA0	Clock CLK =N > deactivated CLK =x,y,w,style	
	style	Default style = radium	
SCRDCLK	Digital Clock SCRDCLK =N > deactivated SCRDCLK =x,y,w,color		18.00 °C
SCRDATE	DATE SCRDATE =N > deactivated SCRDATE =x,y,w,color		SCRBG=#365D6B;SCRACLK=N ;SCRDCLK=N ;SCRDATE= 28,157,167,#BFC9CD ;SCRTEMP= 28,201,78,2,#BFC9CD
SCRTMP	TEMPE SCRTI SCRTI	ERATURE INTERN (RTC) //P =N > deactivated //P =x,y,w,d,color	
	d	Digits	602ppm BOARDROOM
	Touch_ SCRTM SCRTM	IT Object /IP =N > deactivated /IP =objnr,x,y,w,d,PF,color	
SCROBJ	objnr = Display Object_Nr. (In this example linked with Output, measured value CO2)		
			;SCROBJ=63,147,111,169, ,ppm BOARDROOM,#E6F8CE
	PF	PostFix	
SCRTXTBG	Color E SCRT)	Background Textarea	SCRTXTBG = bluegreen
SLIDETIME	(overwri the displ SLIDET	tes the time for slideshow images in ay settings) IME = time in seconds	;SLIDETIME=6s > every picture in slideshow appears for 6s

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Content

Α

VISU

3.3 Custom Properties

The following section describes the characteristics and requirements of the given and the highly customizable icons.

3.3.1 General

Object Type	1 Bit	•
Element Type	1-bit-ON/OFF-Toggle-Text	•
Element Size	Normal	•
Interactive	Small	
Use Element PIN	Normal Large	~
Align steps	X-Large	
Expand horizontal	No Ves	
Expand vertical	No Yes	

The element size can be defined using the ETS. There are four sizes available:

- Small
 - Normal
 - Large
 - X-Large

`	501	nci
_		

CI sification			Remark:
ETS Element Size	Button	Label	Custom icons are not classified.
Small	18 x18 Pixel	18 x 18 Pixel	
Normal	28 x 28 Pixel	28 x 28 Pixel	
Large	48 x 48 Pixel	48 x 48 Pixel	
X-Large	88 x 88 Pixel	88 x 88 Pixel	

3.3.2 User Defined

Button ON/OFF

Examples

Naming conve	ention		lcons can b
Button	xxx_b_on.png	xxx_b_off.png	suffix must
Label	xxx_l_on.png	xxx_l_off.png	

Icons can be named with a freely selectable prefix. The suffix must be chosen according to the naming convention.

Control elements working with this naming convention:

- 1-bit-ON/OFF-Toggle-Picture
- 1-bit-ON/OFF-Toggle-Picture with value
- 1-bit-ON/OFF-Picture with value

(ONOFF_I_on.png
(ONOFF_I_off.png
(ONOFF_b_on.png
(ONOFF_b_off.png
ETS Parameter Element name;format	;IMGSET= ONOFF

Content

Button UP/DOWN

Naming conve	ention			Icons can be named with a freely selectable prefix. The				
Button	xxx_up.png		xxx_down.png	suffix must be chosen according to the naming convention.				
Label	xxx_l_on.png		xxx_l_off.png					
Beispiele				Control elements working with this naming convention:				
		R_up.png	 1-Byte-Value-Picture-Button 1-Byte-Value-Slider 2-Byte-Value-Picture-Button 					
		DIMMEF	R_down.png	 2-Byte-Value-Slider 2-Byte-Float-Picture-Button 2-Byte-Float-Slider 4 Byte-Float-Slider 				
	<u>`</u>	LIGHT_I	_on.png	 4-Byte-Float-Floate-Button 4-Byte-Float-Slider RGB-Dimmer 4-Bit-Dimmer 				
\downarrow	2	LIGHT_I	_off.png	 8-Bit-Dimmer Shutter-Blinds-Control				
ETS Parameter Element name;for	mat	;IMGSET=	· LIGHT;					

Pushbutton

Naming conve	Naming convention		Names of icons can be freely selected.	
Button	xxx.png]	
Examples			Control elements working with this naming convention:	
))	RING.png	 1-Bit-Value-Pushbutton 1-Bit-Timer-Profile 1-Byte-Value-Pushbutton 	
\downarrow		ILLUMINATION.png	 1-Byte-Timer-Profile 2-Byte-Value-Pushbutton 2-Byte-Float-Value-Pushbutton 2-Byte-Float-Timer Profile 	
$= \boxtimes$		SEND.png	 4-Byte-Value-Pushbutton 4-Byte-Float-Value-Pushbutton 14-Byte-String-Pushbutton 	
Ŀ		CLOCK_ICO.png		
ETS Parameter Element name;for	mat	;IMG= ONOFF;		



Custom Properties 3,5" TFT Colour Touch Display Touch_IT V2

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Content

IMGVAL

Naming convention		Names of icons can be freely selected.
Label xxx		
Examples		Control element working with this naming convention:
$\bigcirc 00 \bigcirc$	AMPEL_0.png	1-Byte-Value-Picture-Button
$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	AMPEL_1.png	Remark: For the value "0" must be an image defined.
$\bigcirc \bigcirc \bigcirc \bigcirc$	AMPEL_2.png	The format must be PNG. To upload the extension must be removed.
ETS Parameter Element name;format	;IMGVAL= AMPEL;	

Quad Widgets

Naming conve	Naming convention			Icons can be named with a freely selectable prefix. The		
Label	xxx_l_on.png		xxx_l_off.png	suffix must be chosen according to the naming convention.		
Examples				Control elements working with this naming convention:		
BELL_I		BELL_I_	on.png	 1-bit-Quad-ON/OFF-Status/Toggle-Picture 1-bit-Quad-Value-Pushbutton-Picture 		
X,	E	BELL_I_	off.png			
ETS Parameter Element name;for	mat ;IN	IGSET=	BELL;			

Table 3B - Internal Icons

Dark Icons

Image Set - on / off 28 / 48 / 88 / 128 px



Content

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А VISU

Dark Icons

Image Set - up / down 28 / 48 / 88 / 128 px



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Content

Dark Icons

Image Value 28 / 48 / 88 / 128 px



Image

28 / 48 / 88 / 128 px



STOP.png SPA.png

TEMPERATURE.p

ng

TERRACE.png TIMER_ICO.png



TREBLE.png

WARNING.png

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arcus-eds KNX

Content

Image Set - on / off 28 / 48 / 88 / 128 px

Bright Icons



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Bright Icons

Image Set up / down 28 / 48 / 88 / 128 px





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arcus-eds **KNX**

Content

Bright Icons



Image 28 / 48 / 88 / 128 px

	2:				गुम			
ASTRO_ICO.png	BASS.png	BATH.png	CELLAR.png	CHILD_1.png	CHILD_2.png	CLOCK_ICO.png	COOLING.png	DINING.png
EDIT.png	HEATING.png	HUMIDITY.png			KEY.png	KITCHEN.ong		PAUSE.png
			g					
\triangleright							\equiv	
PLAY.png	POOL.png	PROFILE_ICO.png	RGB_COLOR_ICO.	RGB.png	RING.png	SAUNA.png	SEND.png	SLEEPING.png
SPA.png	STOP.png	TEMPERATURE.D	png	TIMER ICO.png	TIMER.png			
		ng		<u>-</u>				

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Dark Icons

System

32/48 px



Bright Icons

System 32/48 px

	\langle		×	\times			\sim		Tt	
SYS_ALARM.png	SYS_BACK.png	SYS_BRIGHTNES S.png	SYS_CANCEL.png	SYS_CLOSE.png	SYS_DATE.png	SYS_DIAGRAM_B G.png	SYS_DOWN.png	SYS_FACTORY.pn g	SYS_FONT.png	SYS_FORWARD.p ng
	A		\leftarrow	×		Р	3	\rightarrow		
SYS_HOME.png	SYS_KEY.png	SYS_LAYOUT.png	SYS_LEFT.png	SYS_MUTE.png	SYS_OK.png	SYS_PROGRAM.p ng	SYS_RESTORE.pn g	SYS_RIGHT.png	SYS_SAVE.png	SYS_SDCARD.png
))	ঠ্য	\bigcirc								
SYS_SOUND.png	SYS_SYSTEM.png	SYS_TIME.png	SYS_TIMEOUTS.p ng	SYS_UP.png						



Content

3.4 Update Tool

The following section describes the different functionality of the Touch_IT Updater. The Tool contains several functions e.g.: Firmware update, Upload Scrensavers, User Icons, , Logic files, etc.

3.4.1 Software Installation

etup-Sprache auswählen		Setup - TouchIT-Updater	
Wählen Sie die Sprache aus, die während der Installation benutzt werden soll: Deutsch English VN Autrechen			Willkommen zum TouchT-Updater Dieser Assistent wird jetzt TouchIT-Updater 2.7 auf Ihrem Computer Istalieren. Bis olfen alle anderen Anwendungen beenden, bevor Sie mit den Brotener zum Forfahren, "Abbrechen" zum Verlassen.
Setup - TouchIT-Updater		Setup - TouchIT-Updater	
Ziel-Ordner wählen Wohin soll TouchlT-Updater installiert werden?		Startmenü-Ordner auswähle Wo soll das Setup die Progr	n amm-Verknüpfungen erstellen?
Klicken Sie auf "Weiter", um fortzufahren. Klicken Sie auf "Durchsuche anderen Ordner auswählen möchten. © (Program Files (x86)/Arcus EDS) TouchT Mindestens 12 MB freier Speicherplatz ist erforderlich. eutsch	on", falls Sie einen	Klicken Sie auf "Weiter", um i anderen Ordner auswählen n Arcus EDS	tortzufahren. Klicken Sie auf "Durchsuchen", falls Sie einen möchten.
Setup - TouchIT-Updater		الحالي Setup - TouchIT-Updater	
Das Selup ist jetzt bereit. TouchIT-Updater auf Ihrem Computer zu ins Rilcken Sie auf "Installieren", um mit der Installation zu beginnen, ode Einstellungen zu überprüfen oder zu ändern. Ziel-Ordner: C:\Program Files (x86)\Arcus EDS\TouchIT Startmeni-Ordner: Arcus EDS 4	tallieren.		Beenden des TouchIT-Updater Setup-Assistenten Das Setup hat die Installation von TouchIT-Updater auf Ihrem Computer abgeschlossen. Die Anwendung kann über die Installerten Programm-Verknipungen gestatett werden. Klicken Sie auf "Fertigstellen", um das Setup zu beenden.
ursen	Installieren Abbrechen		Eertigstellen

When finishing the installation, a folder containing the 32-Bit and the 64-Bit Touch_IT drivers will be created.

3.4.2 Diver Installation

🚔 Geräte-Manager 📃 📃 🗾
Datei Aktion Ansicht ?
Arcus-CAD
🖻 📓 Akkus
4 b Andere Geräte
Gadget Serial v2.4
Anschlüsse (COM & LPT)
Ireibersoftware aktualisieren - Gadget Senal v2.4 Auf dem Computer nach Treibersoftware suchen
An diesem Ort nach Treibersoftware suchen: C\Program Files\Arcus EDS\TouchIT\drivers

🚔 Geräte-Manager 📃 😐	X
Datei Aktion Ansicht ?	
Arcus-CAD	-
🛛 🚽 Akkus	
4 🐨 Anschlüsse (COM & LPT)	
Arcus TouchIT (COM7)	
- Transformations Port (COM1)	
- Intel(R) Active Management Technology - SOL (COM3)	



The drivers are located in the folder **drivers** of the installation path. When the installation of the drivers is finished, an additional serial interface will be registered in the Device Manager. In this example, the serial interface **COM7** was assigned to the Touch_IT.

3.4.3 Service Tool

The update tool is located in the folder Arcus-EDS of the start menu and can be started by operating Run Touch_IT-Updater.

State Screensave	SI Oldesilow	0361100113	Logic	Troubleshooling	onapanor
Select COM-PORT	T Ve	rsion: 2.12			
COM7		·			
Discon	nect			U	pload file
CONNECTED					
Upda	ite			Sc	reenshot





General

Select COM-PORT

must be set to the port that was assigned to the Arcus-EDS Touch_IT by the system. (See also Control Panel / System / Device Manager - connections) (here: COM7)

Update

It will be updated all system components.

Upload File

makes it possible to directly transfer files to any desired storage position of the Touch_IT.

Screenshot

saves the current display of the Touch_IT as an image file on your computer.

Static Screensaver

Upload Screensaver

can be used to upload an image that is to be used as static screensaver.

Remove Screensaver

deletes the current static screen saver

supported formats:

PNG BMP JPG

The resolution of the display is 320x240 pixels.

Slideshow

Upload Images

can be used to upload slideshow images that are to be used in the screensaver.

Remove Slideshow Images can be used to upload slideshow images that are to be u

supported formats:

PNG	BMP	JPG	GIF	

The resolution of the display is 320x240 pixels.



User Icons Upload Icons

can be used to upload custom symbols and icons that are to be used as operating elements.

Remove Icons

deletes custom symbols and icons

The specification of the size and the assignment of names will be explained in chapter 8, Custom Properties.

General	Static Screensaver	Slideshow	User Icons	Logic	Troubleshootin	g Snapshot	
			Ī	oadbreak			
[List Functions						
(Upload Fund	ction					
[Remove Fund	ctions					

Logic

List Functions lists all logical functions

Upload Function

serves to upload logical functions

Remove Funktion deletes selected logical functions

More information on logic can be found in chapter 6, Logic.

Troubleshooting

Download and Mail Information

If downloading via ETS is not possible or other malfunctions occur, all settings and parameters of the Touch_IT can be downloaded using the Troubleshooting tab. The file can be sent to Arcus-EDS GmbH via email (service@arcus-eds.de) for error analysis.

Troubleshooting

Make Snapshot

creates an exact copy of the configuration of a Touch_IT.

The snapshot includes:

- · all predefined system settings (font size, time presets for screensaver and standby, etc.)
- · Static screensaver image
- · Slideshow images for the screensaver
- Custom icons and symbols
- · Logical functions

Upload Snapshot

serves to upload an existing snapshot

		SNAPS	HOT: ta	z/tar		
		o	ot			
bin	icons	images		languages	settings	
logik	usr	usr		usr	system	widgets
function		screensaver				
		slideshow	static			
lua	png	png	png	en.txt	settings.txt	
				de.txt		
				gr.txt		

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General Static Screensaver Slideshow User Icons Logic Troubleshooting Snapshot

Download and Mail Information

Make Snapshot

Upload Snapshot

READY

Received: 0

General Static Screensaver Slideshow User Icons Logic Troubleshooting Snapshot
	4 Logic	
	Touch_IT V2	
Α		
VISU	4.1 ETS	
	4.2 Functions	
	4.2.1	KNX Functions
	4.2.2	System Functions
	4.2.3	Callback Functions
	4.2.4	Example Applications
	4.3 Source Co	de

Main

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4 Logic

The logical functions are developed in the scripting language LUA. The available implemented functions will be described more on the following pages. 31 communication objects are reserved for logical functions. As the necessary object types can vary depending on the requirements, there are 6 different object schemas available.

4.1 ETS

Use logic functions	No O Yes	
Logic scheme	IO-Schema 1	•
	Internal Only	
	IO-Schema 1	~
	IO-Schema 2	
	IO-Schema 3	

Object Schemas	Quantity	Communication Objects
No / Internal Only		No Objects
Scheme 1	10 x 8 x 8 x 5 x	1 Bit 1 Byte 2 Bytes 4 Bytes
Schema 2	23x 4x 2x 2x	1 Bit 1 Byte 2 Bytes 4 Bytes
Schema 3	15x 12x 2x 2x	1 Bit 1 Byte 2 Bytes 4 Bytes

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4.2 Functions

4.2.1 KNX Functions

Function	Example		
knx.get_string(a,b,)	X,Y,Z=knx.get_string(CO1,CO2,CO3)		
Reads one or more 14-Byte strings from the objects a,b,			
knx.set_string(a,b)	knx.set_string(CO1,"Hello World" 3)		
Writes the 14-Byte string b (Hello W	orld 3) to a communication object (a)		
knx.get_integer(a,b,)	X,Y,Z=knx.get_integer(48,52,56)		
Reads one or more integer value(s) from the objects a,b, (1Bit, 1Byte, 2Byte, 4Byte (un-)signed).			
knx.get_float(a,b,)	X,Y,Z=knx.get_float(20,24)		
Reads one or more float value(s) fi	rom the objects a,b, (4Byte float).		
knx.set_integer(a,b,c)	knx.set_integer(4,2,344)		
Outputs the integer value c with the len	gth b=14 to a communication object a.		
knx.set_float(a,b)	knx.set_float(8,27.8)		
Outputs the float value b to	the communication object a.		
knx.dpt9_to_int(a)	b=knx.dpt9_to_int(Value);		
Converts a 2-Byte float value	⇒ into an integer value (*100).		
knx.int_to_dpt9(a)	b=knx.int_to_dpt9(Value)		
Converts an integer value	into a 2-Byte float value.		
knx.tx_idle(a)	knx.tx_idle(6)		
Tests a communication object whether it has completed the sending process.			

4.2.2 System Functions

Example			
sys.timeout(1000,233)			
When a (1000 milliseconds) has elapsed, the function timeout() with the value b (233) will be executed.			
sys.set_page(0)			
a, leaving stand-by.			
sys.set_brightness(100)			
Setting brightness to a value a (given in %).			
sys.beep(100,1500,15)			
The internal beeper is activated for a (100) milliseconds, with the frequency b (1500 Hz) and the volume c (100%).			
sys.put_setting("test value",10)			
o the value b (10). Will be saved in the flash memory.			
sys.get_setting("test value")			
e variable a (test value).			
sys.signal_obj(48)			
that the value of object a (48) has changed.			
sys.message("Hallo Welt")			
Opens a message dialog with the message a ("Hello World").			
sys.settings_dialog("table")			
Opens a dialog in order to change the settings table named a ("table").			
sys.read_settings("table")			
Reads a settings table named a ("table").			
sys.write_settings("table")			
Saves the values of the settings table a ("table") in the flash memory.			

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Function	Example
settings={ {name;min;max;val;dc} }	settings={ {name="Limit1 kW";min=0.5;max=6.0;val=1.0;dc=1}; {name="Limit2 kW";min=0.5;max=6.0;val=2.5;dc=1}; }
Defines a settings table. "dc" ist the number of decimal places displayed in the settings dialog.	

4.2.3 Callback Functions

Function	Example	
knx_value_changed(x)		
Is carried out when the value of an object changes. X is the object number.		
knx_value_update(x)		
Is carried out when the value of a logical	object is updated. X is the object number.	
settings_set(x)		
Is carried out when a settings dialog (x = name of the table) is closed by pressing "OK".		
timeout(x)		
Is carried as soon an a sys.timeout() occures. x is 0 or as set in sys.timeout(a[,b]). Return 1 to stop the timeout-source 0 to continue cyclically.		

4.2.4 Example Applications

In the following example, three 4-Byte float values coming from a KNX three-phase electricity meter are analyzed and then output as graphic depictions of three 1-Byte values (0,1,2). The figure shows a traffic light. Depending on the performance one of the three colors red, yellow or green will be displayed.

ETS				
Para	ameter Setting Main			
	Global format identifiers	Arcus;LOGIC=Wirkleistung		
	Additional identifiers			
	Use logic functions			
	Use logic functions			
	Logic scheme	IO-Schema 1		
	2			
ETS	5 Topologie			
		1: I Time - System Time input		
		■Z 2: I Date - System Date input		
		■Z 3: IO On/Off - System On/off		
	■之 4: IO Standby - System Standby			
	■之 5: I LED - System LED			
	■2 IO Logic 1-Bit 0 - Logic			
	■Z 33: IO Logic 1-Bit 1 - Logic			
	■2 34: IO Logic 1-Bit 2 - Logic			
		Z 35: IO Logic 1-Bit 3 - Logic		
	■ 2 36: IO Logic 1-Bit 4 - Logic			
		I G Logic 1 Bit 6 Logic		
		42: 10 Logic 1-Byte 0 - Logic		
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4.3 Source Code

```
settings={
    {name="Limit1 kW";min=0.5;max=6.0;val=1.0;dc=1.0};
    {name="Limit2 kW";min=0.5;max=6.0;val=2.5;dc=1.0};
    }
last_states={ -1;-1;-1 }; --last-state
function settings_set(x)
    sys.write_settings(x)
    knx_value_changed(248) --KO 248
    knx value changed(249) --KO 249
    knx_value_changed(250) --KO 250
end
function knx_value_changed(x)
    if ( x == 248 ) then
        val=knx.get_float(x);
        state=0;
        if (val>(settings[2].val*1000)) then
            state= 2;
        elseif (val >(settings[1].val*1000)) then
            state= 1;
        end
        if (state ~= last_states[1]) then
            last states[1]=state;
            knx.set_integer(232,1,state)
        end
    end
    if ( x == 249 ) then
        val=knx.get_float(x);
        state=0;
        if (val>(settings[2].val*1000)) then
            state= 2;
        elseif (val >(settings[1].val*1000)) then
            state= 1;
        end
        if (state ~= last_states[2]) then
            last states[2]=state;
            knx.set_integer(233,1,state)
        end
    end
    if ( x == 250 ) then
        val=knx.get_float(x);
        state=0;
        if (val>(settings[2].val*1000)) then
        state= 2;
        elseif (val >(settings[1].val*1000)) then
        state= 1;
        end
        if (state ~= last states[3]) then
            last_states[3]=state;
            knx.set integer(234,1,state)
        end
   end
end
function knx_value_update(x)
    knx_value_changed(x)
end
```

```
sys.read_settings("settings")
```

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Manufacturer



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