

# KNX IP BAOS 772 database with building structure

Operating manual

# General

The structured database is a special database for the KNX IP BAOS 772, in which the building structure is configured and the corresponding parameters and communication objects are created automatically.

## **ETS** Database

With the ETS, following parameters can be set:

#### General:

Device: 1.1.4 BAOS 772 Struct			
Common	Device name	KNX IP BAOS 772	
IP-Configuration 1			
IP-Configuration 2	IP address assignment	manual	-
Main	Sending of indications	Activated	•
	-	L.	

#### Device name:

It's possible to assign any name for the KNX IP BAOS 772. The device name should be significant (e.g. Data points 1<sup>st</sup> floor), because the name is used when searching for devices.

# IP address assignment:

DHCP: The device can get its IP-address from a DHCP-server automatically. There must be a DHCP-server in the LAN in order to use this functionality (e.g. this can be a DSL-router with a DHCP-server integrated).

*Manually:* In this case, the IP-address, the sub network and the IP-address of the gateway have to be entered.

#### Sending of indications:

When this parameter is activated a client will receive asynchronous data point value indications

### IP -Configuration:

Common	IP address		
IP-Configuration 1			
IP-Configuration 2	Byte 1	192	
Main			
	Byte 2	168	(
	Byte 3	1	5
			(
	Byte 4	25	i
	IP subnet		
	Byte 1	255	(
	-,		
	Byte 2	255	(
	Byte 3	255	(
	Byte 4	0	l

IP-Address:

Enter the IP-Address of the KNX IP BAOS 772 here.

#### IP-Sub network:

Enter the sub network mask here. The mask helps the device to discover, whether the communication partner is the local network. If the partner is not in the local network, then the device sends the IP telegrams not directly to the partner but to the gateway, which forwards the telegrams to the device.

Common IP-Configuration 1	IP gateway		
IP-Configuration 2	Byte 1	0	6
Main			
	Byte 2	0	6
	Byte 3	0	2
	Byte 4	0	6

IP-Gateway-Address:

Enter the IP-Address of the gateway here. Hint: Leave 0.0.0.0 there, if the KNX IP BAOS 772 ought to be used only in the local LAN.

Example for IP-Address assignment:

Over a PC the KNX IP BAOS 772 shall be accessed.IP-Address of the PC:192.168.1.30Sub network of the PC:255.255.255.0

The KNX IP BAOS 772 is located in the same local LAN therefore it uses the same sub network mask. Because of the used sub network the IP-address assignment is limited, only addresses with format 192.168.1.xx can be assigned the device, xx stands for the range 1-255 (without 30, because already assigned to PC). Be careful not to use one IP-address more then once.

IP-address KNX IP BAOS:	192.168.1.31
Sub network KNX IP BAOS:	255.255.255.0

#### Function groups:

Device: 1.1.4 BAOS 772 Struct			
Common IP-Configuration 1	Function group 1	Enabled	•
IP-Configuration 2	Name of group 1	Function group 1	
Main	Euroction group 2	Enabled	-
Function group 1	Tunction group z	LINDICO	
Common functions	Name of group 2	Function group 2	
	Function group 3	Disabled	•
	Function group 4	Disabled	•
	Function group 5	Disabled	•
	Function group 6	Disabled	•
	Function group 7	Disabled	•
	Function group 8	Disabled	•
	Function group 9	Disabled	•
	Function group 10	Disabled	•
Group Objects / Parameters / Con	missioning /		

Here, the respective functional groups are activated and the corresponding names have to be assigned. These names should be descriptive (e.g. Kitchen). A special case is the group "Common functions". This only can be activated or deactivated.

The information of the individual function groups are saved as parameter bytes (byte 1 - 384), which can be read via ethernet. For each function group there are 32 bytes available, which are set as follows:

Byte 1:	Function group activated/ deactivated
Byte 2-31:	Name of function group
B	

#### Functions:

Device: 1.1.4 BAOS 772 Struct			
Common IP-Configuration 1	Function 1 - 1	Switch actuator	•
IP-Configuration 2 Main	Name of function 1 - 1	Switch actuator	
Function group 1	Function 1 - 2	Switch actuator with state	-
Function group 2 Common functions	Name of function 1 - 2	Switch actuator with state	
	Function 1 - 3	Disabled	•
	Function 1 - 4	Disabled	•
	Function 1 - 5	Disabled	•
	Function 1 - 6	Disabled	•
	Function 1 - 7	Disabled	-
	Function 1 - 8	Disabled	•
	Function 1 - 9	Disabled	•
	Function 1 - 10	Disabled	•

Here the respective functions of the activated function groups have to be selected and appropriate names have to be assigned (e.g., Light dining table). For each function 5 communication objects have been reserved, which are configured via function type.

#### Functions:

The following function types with the associated communication objects can be selected:

Deactivated	
Switch actuator	1. Switch on/off
Switch actuator with state	1. Switch on/off
	2. Switch state
Dim actuator	1. Dim brighter/darker
	2. Dim relative
	3. Dim value
Dim actuator switch state	1. Dim brighter/darker
	2. Dim relative
	3. Dim value
	4. Dim switch state
Dim actuator value state	1. Dim on/off
	2. Dim relative
	3. Dim value
	4. Dim value state
Jalousie actuator	1. Jalousie up/down
	2. Jalousie step/stop
Jalousie actuator with state	1. Jalousie up/down
	2. Jalousie step/stop
	3. Jalousie up/down-state
	4. Jalousie step/stop-state
Shutter	1. Shutter up/down
	2. Shutter stop
Shutter with state	1. Shutter up/down
	2. Shutter stop
	3. Shutter up/down-state
Temperature	1. Temperature state
Temperature with set point	1. Temperature state
	<ol><li>Temperature set point</li></ol>
Scene	1. Scene switch
Presence	<ol> <li>Presence state</li> </ol>
Window contact	1. Window contact state
Door contact	<ol> <li>Door contact state</li> </ol>
Smoke alert	<ol> <li>Smoke alert state</li> </ol>
Water alert	1. Water alert state

The information of the individual functions are saved as parameter bytes (byte 385-6528), which can be read via Ethernet. For each function there are 32 bytes available, which are set as follows:

 Byte 1:
 F

 Byte 2-31:
 N

 Byte 32:
 F

Function type Name of function Reserved for further use

# **Common functions:**

Device: 1.1.4 BAOS 772 Struct			
Common IP-Configuration 1	Time	Enabled	•
IP-Configuration 2 Main	Date	Enabled	•
Function group 1 Function group 2	HVAC mode	Enabled	•
Common functions	Door bell	Enabled	•
	Door opener	Enabled	•
	Burglary alert	Enabled	•
	Rain alert	Enabled	•
	Wind alert	Enabled	•
	Outdoor temperature	Enabled	•
Group Objects / Parameters / Con	nmissioning /		

Here the common functions can be activated, for which you don't have to set any names. For each function, a communication object has been reserved. The following functions can be activated:

Time	1. Time state
Date	1. Date state
HVAC mode	1. HVAC mode switch
Door bell	1. Door bell state
Door opener	1. Door opener switch
Burglary alert	1. Burglary alert state
Rain alert	1. Rain alert state
Wind alert	1. Wind alert state
Outdoor temperature	1. Outdoor temperature state

The information of the common functions are saved as parameter bytes (bytes 6529-6538), which can be read via Ethernet. These functions only have 10 bytes available. These are set as follows:

Byte 1:Common functions activated/deactivatedByte 2-10:Single common function activated/deactivated



Weinzierl Engineering GmbH DE-84508 Burgkirchen E-Mail: info@weinzierl.de Web: www.weinzierl.de