

# MASTER SERVER AT-5D-MS-MS-01



Integrator Manual v1.1.1

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## INITIAL CLOUD SETUP

## **Prerequisites**

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1. Power supply

Master Server requires a DIN rail power outlet for its own supply. Not included.

#### 2. Network

Master Server needs access to the internet for syncing the configuration stored in our cloud server during *Initial Setup*.

#### 3. Master Server

Locate the unique serial number and PIN included in the package content.

### **Cloud Setup**

- 1. Connect the device to a router with internet connection using an ethernet cable and power it on.
- 2. Go to <u>www.atomity.com/setup</u> and register/log into Atomity Cloud server.
- 3. A list of all your previously configured devices will appear. Press "Register new device" button.
- 4. Identify your Master Server: Enter its serial number and PIN and click "Login" button.



5. Choose a server name to identify it. Enter the name and press "Check" to verify it is not in use. Click "Save" button.



#### 🛠 Please take into account it is not possible to undo this action later

6. Change network parameters if necessary.

Atomity Setup ×	
← → C fi 🗋 www.atomity.com/s	etup 📃 🔳
Setup	ity
IP address	192.168.1.134
Network mask	255.255.255.0

7. Add users: You can create up to 5 different users. At least one of them must be "Admin".

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🗅 Atomity login 🛛 🗙		
← → C n D http://ww	w.atomity.com/setup	=
Administrator •	omity	
Туре	Administrator •	
Full name		
Login	admin	
Password		
E-mail		
Picture	<b>84</b> 52	
Save		

Differences between existing types of users:

Туре	Access to	Visible recipes
Admin	All pages	All
Owner	All pages except Devices	Only non-"System recipes"
User	All pages except Devices and Configuration	Only non-"System recipes"

At this point, our Cloud Server will update your Master Server. Once the update process has finished a message will be shown. Otherwise, please refer to Annexes - Troubleshooting section.

NOTE: iOS and Android devices register process is made *per User* via Master Server app. Please go to *Visualization* section for more information about it

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1. Open your favorite web browser (Chrome, Firefox...) and go to its local IP (default <u>http://192.168.1.145</u>). The *Welcome page* will be shown:



- 2. Log in using any of the previously created users.
- 3. After entering button you will be redirected to *Settings* menu.

	3	BASIC CONFIGURATION
Cloud setup First access		Please go to Settings » Configu
» Basic configuration		Basic configuration requires ac

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ration

djusting the following parameters:

1. Latitude and longitude of building localization

These values can be obtained in the web page http://itouchmap.com/latlong.html

KNX NET/IP gateway address. The Master Server will connect to KNX system using this device. 2.

(NV asterney)	
INA galeway	192.168.1.250
Send date and time to the KNX bus	
Period of date and time sending	10 Min.
KNX group address for date sending	1/5/1
KNX group address for time sending	1/5/0

The rest of parameters (language, currency, etc.) will not affect to its functionality.

% NOTE: In case of changing network parameters, the system will require a reset (Settings » **Reset**) to ensure its correct application

## BUILDING HIERARCHY DEFINITION



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Factory default includes a basic hierarchy structure containing one Building, one Floor and one Room:



This structure can be customized using these different actions:

#### • Adding new zones

Definition of zones of the building can be performed using New building, floor and room buttons.

#### • Modifying and removing existing zones

Please hold the button of the desired zone. Two new buttons will appear:



X: remove zone E: edit zone

Once the whole building structure is complete you can begin to define different zone Devices.

## WORKING WITH DEVICES

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Please follow the next steps to define building devices: 1. Go to Settings » Devices, section "New device" New device Name: Device name My new devi Location Room - Floor - My house Category: . Lighting Protocol: Kn Device type: Simple light Show in display Parameters On/Off: Status: Answer if reading Give the new device an unambiguous Name Choose an icon Indicate which will be its Location in the installation, according to the previously defined hierarchy Select the *Category* which best matches device *class*:

Lighting	HVAC	Generic controls	Energy
Blinds	Safety	Weather	Multimedia
Protocol			

6. Define its Protocol:

2.

3.

4.

5.

KNX

Philips Hue

Define if this particular device should be shown in the display or not 7.

Sonos

Indicate the *Type* of device, depending of both selected *Category* and *Protocol*. Examples: 8.

	KNX		Sonos
Parameters		Parameters	
On/Off:		IP:	
Status:			
Answer if reading :			
Ph	ilips Hue		
arameters			
D:			

Store the declared Device by pressing Save button 9.

Existing devices declaration can be accomplished by repeating previous steps. A list of all created devices can be found in *Devices* section:

Devices	
Description	Q (Filler
My blind	
My dimmable light	
My new device	
My push button	

## Modifying, copying or removing an already created device

In case of pressing over an already existing Device:

- 1. New Device section will show its actual parameters, permitting to edit them.
- 2. Furthermore, two additional buttons will appear to perform the following actions:
  - Remove the selected device (X)
  - Duplicate it (D)

Devices				
Description	Q (Filter			
My blind				
My dimmable light		DX		
My new device				
My push button				

#### Virtual devices

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In addition to declared devices, the Master Server provides some special devices based on Users configuration:

1. **Push notification** device, for sending customized notifications to any iPhone/iPad declared in Users section.



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2. *Email device*, for sending users an email with the desired text.

Recipient

Message



Recipient	My user 🔻
Subject	
Message	

This particular device can be utilized for sending *Zennio Energy Meter* device stored values using one of the following pointers:

Energy (kWh)	<<@@EnerT@@>>
Cost (€)	<<@@CosteT@@>>
Total emisions (ppm)	<<@@CO2T@@>>
Power (W)	<<@@Potl@@>>

These two special devices can be found in Scenes, Recipes and Calendars » Categories » Communications.

## Importing KNX Devices from an ETS database

Master Server helps you in the task of defining new devices by allowing you to import all your project group addresses. It can be accomplished as follows:

- 1. Open your ETS project
- 2. Go to File » Extract Data



3. Go to Export to OPC Server section and click Export button

Export Foreign Format	
Export to CSV/XML Export the content of the active list view (right browser pane) to a CSV or XML file (e.g., for further use in a spreadsheet program).	Export
Export to OPC Server Exports project data for use by the IRIX OPC server.	Export
	Cancel

- 4. Give it a name and save it as an .esf file (i.e. my\_project.esf)
- 5. Go to Settings » Devices, section "Import ETS project" and select the \*.esf file

#### Import ETS project



6. Click the *Upload* button. ETS group addresses will appear in "Imported ETS" section once the process has finished:

#### Imported ETS

Address	Description	Size
0/0/1	Group address 1	1 bit
0/0/2	Group address 2	1 byte
0/0/3	Group address 3	1 bit
0/0/4	Group address 4	1 byte
0/0/5	Group address 5	1 bit

7. At this point, it is possible to drag and drop any of the imported group addresses to *Parameter* section.

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Name:		闘	Address	Description	Siz
Device name			0/0/1	Group address 1	1 bi
Location:	Deem Fleer Hybeyre	_ /	0/0/2	Group address 2	1 b
	Koom - Ploor - My House				
Category:	Lighting	•			
Protocol:	Knx	<u>/</u> ·			
Device type:	Simple light	*			
Show in display:					
Parameters					
On/Off:	-0/0/1				
Status:					

As a result, both *Group address* and *Description* will be copied to *Parameter* and *Name* fields:

Name: Device name	
Group address 1	
Location:	Room - Floor - My house 🔻
Category:	Lighting •
Protocol:	Knx
Device type:	Simple light •
Show in display:	۲
Parameters	
On/Off:	0 / 0 / 1
Status:	

# Imported ETS

A	ddress	Description	Size
0	/0/1	Group address 1	1 bit
0	/0/2	Group address 2	1 byte

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## THE VISUALIZATION

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The visualization is one of the main system features, as it permits users to:

- 1. Examine and modify the state of various constituent building elements
- 2. Display actual values of measured variables (wind speed, humidity, room temperature, etc.)

Its structure can be divided in 5 sections:



## Rooms menu

Devices

## Actions menu

Tap over it to show basic actions menu:

- User Log out
- Reset/Shut down the Master Server

Log out Reset
Administrador

#### Rooms menu

It consists in a list of all the created rooms when defining the building *hierarchy*.

In case of pressing over any of them, selected room devices will be displayed.

#### **Categories menu**

Filter menu (lighting, blinds, scenes, etc.), to help in building control by displaying only selected category devices.

The filter can be globally controlled by pressing "Hide/Show all" button.

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#### Main section of the page. It displays all the existing devices, depending on:

- 1. Selected room
- 2. Filtered categories

## <u>Sidebar</u>

Initially hidden menu which contains a link to Scenes, Recipes, Calendars, Historical and Settings pages.

To display it, please perform a "right-to-left drag and drop" movement over the right side arrow.



#### The iPad app: Master Server

Master Server app is a free iPad application which allows users to access directly to the visualization, without requiring remembering its IP address.

You can install and configure it as follows:

- 1. Go to the App Store and search for "Master Server"
- 2. Install and open it



3. Configuration page will be shown:

	OK
SerialNumber	
User	
Password	
www.atomity.com	

Enter required data and press "OK". The device will be linked to User and all the parameters stored in our Cloud server will be automatically downloaded.

In case any of the data is wrong please shake your device to return to Configuration page.

Y Please take into account remote access requires port 80 to be opened

Once linked, the new device will appear in *Communications* category.

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## SCENES CREATION

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Scene: List of actions to be performed jointly. Example "Not at home": Blinds down; Climate off; Lights off

A new scene can be created following these steps:

1. Go to Visualization » Sidebar » Scenes

Back	Scenes	Start
		admin Ů
		Show all
New scene		

- 2. Press "New scene" button
- 3. Configure the new scene basic parameters:
- - NameIcon
  - Room allocation (if necessary, for displaying it in the visualization)

Back	Scene	Sta
		admin 😃
New scene	7777	
My scene		
Scene enable	Play	
Show scene in room:		
Room - Floor - My house		
(+) New action		

4. Press "New action" button to select a particular building *Device* and its desired state. This selection can be done by *Zones* or *Categories*, showing in each case a list of all existing devices:

Zones	Categories
Zones Categories	Zeneral Categories
My house	Ipping         Imp         Imp<
Floar	
Room	By demote light By new device
Ity bind by demailed get Vy even device Uy push butter	

A delay can be configured for each new added action.

5. Press "Save" button

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It is possible to create a list of actions to be performed repeating previous steps:



## **Rearranging the list of actions**

This action can be accomplished by clicking over the up/down arrows existing at the right of each listed device.

## Modifying, copying or removing an already associated action of a scene

In case of pressing over any "already added to scene" *Device*:

- 1. Both actual configured state and associated delay will appear to permit its modification.
- 2. Two additional buttons will become visible to perform one of the following actions:
  - X: Remove the selected action from the scene
  - D: Duplicate it



## Copying and deleting an already created scene

This action can be performed this way:

- 1. Go to Visualization » Sidebar » Scenes
- 2. Hold the scene button. Two new buttons will become visible:
  - X: Remove the selected scene
  - D: Duplicate it



#### Playing an scene externally using a URL

Please go to the API reference to know how to do this action.

## BASIC LOGICAL FUNCTIONS: RECIPES

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1. Go to Visualization » Sidebar » Recipes

	admin 😃
	Enabled
	Childheu

- 2. Press "New recipe" button
- 3. Configure the new recipe basic parameters:
  - Name
  - Icon
  - System recipe (depending on whether you want it to be visible or not for Owner/User users)

2.	
	7

- 4. Press "If" button to select:
  - a particular building *Device*; This selection can be done by *Zones* or *Categories*, showing in each case a list of all existing devices
  - the condition that must be met in order the action to be performed
  - if the result of the condition must be evaluated with every new received value or just when a change in previous result happens:

of a change in final result	Evaluate only in case
-----------------------------	-----------------------

5. Press "Then" button to select a particular building *Device* and its desired state. This selection can be done by *Zones*, *Categories*, *Calendars or Scenes*.



A delay can be configured for each new added action.

6. Press "Save" button.

It is possible to create a list of actions to be performed repeating previous steps:

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	adr
New recipe	
My recipe	2
C Enable recipe	
System recipe	
H Ar	Then
<b>7</b> . <b>7</b> . <b>7</b> .	
Gas alarm B THOS	device Crv
	Adv dimensible 50 %

## **Rearranging the list of actions**

This action can be accomplished by clicking over the up/down arrows existing at the right of each listed device.

## Modifying, copying or removing an already associated action of a recipe

In case of pressing over any "already added to recipe" *Device*:

- 1. Both actual configured state and associated delay will appear to permit its modification.
- 2. Two additional buttons will become visible to perform one of the following actions:
  - X: Remove the selected action from the recipe
  - D: Duplicate it

+ Then	*	
	My new device	N.
	My dimmable light	

## Copying and deleting an already created recipe

This action can be performed this way:

- 1. Go to Visualization » Sidebar » Recipes
- 2. Hold the recipe button. A new button will become visible:
  - X: Remove the selected recipe

Back		Re	cipes	_	Start
					admin 🖒
New recipe	If it rains then blinds down	If push button pressed then scene	X My recipe		Show all

## (10) PROGRAMMED ACTIONS DEFINITION: CALENDARS



Steps:

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## 1. Go to Visualization » Sidebar » Calendars

Back	Calendar	start
		admin 😃
		Show all
New calendar		

## 2. Press "New calendar" button

- 3. Configure the new calendar parameters:
  - Name
    - Icon

New calendar	<b>*</b>	
My cal		
✓ Enable calendar		

4. Press "When" button to select new calendar periodicty. Example:

Daily Weekly Monthly	Yearly
Start: 13:45 • •	
End at:	During: Minutes
Start calendar	
Today Choose date	
Repeat	
Always Until date Set repetitions	

Summary	of options	:
---------	------------	---

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When	Value	OR	Type of value
	Start		hour
	End	At	hour
		During	minutes
Daily	Colondor stort	Today	
	Calendar start	Date	date
	Dopost	Always	
	Repeat	Until date	date
	Frequency	Day of the week	M-S (1 or more days)
	Start		hour
	End	At	hour
Mookly	ЕПИ	During	minutes
WEEKIY	Calendar start	Today	
		Date	date
	Demost	Always	
	Repeat	Until date	date
	Frequency	Day of month	1-31 (1 or more days)
			First, Second, etc.
	liequeries		Day, Working day, Non-working day
			M-S
	Start		hour
Monthly	End	At	hour
		During	minutes
	Calendar start	Today	
		Date	date
	Repeat	Always	
	Repeat	Until date	date
	Frequency	Month + Day	J-D + 1-31 (1 or more months & days)
Voarly	Start		hour
	End	At	hour
		During	minutes
rearry	Calondar start	Today	
		Date	date
	Repeat	Always	
		Until date	date

5. Press "Then" button to select a particular building *Device* and define its desired state, at the beginning or/and the end of calendar. This selection can be done by *Zones*, *Categories or Scenes*.

Zones	Categories	Scenes	
All Lights OFF	My scene 1	Sleep	

A different delay can be configured for each new added action.

6. Press "Save" button.

Not enabled calendars will exist but not launch.

It is possible to create a list of actions to be performed (at the beginning or at the end) repeating previous steps:

Corner C
My new device
My dimmable 30 %
Actions at the end
All Lights OFF

## **Rearranging the list of actions**

This action can be accomplished by clicking over the up/down arrows existing at the right of each listed device.

## Modifying, copying or removing an already associated action of a calendar

In case of pressing over any "already added to calendar" Device:

- 1. Both actual configured state and associated delay will appear to permit its modification.
- 2. Two additional buttons will become visible to perform one of the following actions:
  - X: Remove the selected action from the recipe
  - D: Duplicate it



## Copying and deleting an already created calendar

This action can be performed this way:

- 1. Go to Visualization » Sidebar » Calendars
- 2. Hold the calendar button. A new button will become visible:
  - X: Remove the selected calendar



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## THE MASTER SERVER WORKING AS A DATALOGGER: HISTORICAL



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## Steps:

(11)

1. Go to Visualization » Sidebar » Historical

Back	Historical record sending	start
		admin Ů
		Show all
$\bullet$		
New historical record		

- 2. Press "New historical record" button
- 3. Configure new historical basic parameters:
  - Description
  - Icon
  - Recipent, the user who will receive the historical

Back Historical record sending	Sta
	admin Ů
New historical record sending	
Description	
My historical	
Recipient	
My user 🔻	
S Epoble	
to Litable	
When      Devices	

4. Press "When" button to select new historical periodicty. Example:

Daily	Wookly
Send at:	× v

Summary of options:

When	Value		Type of value
Daily	Send at		hour
Mookly	Frequency	Day of the week	M-S
Weekiy	Send at		hour

- 5. Press "Devices" button to select:
  - a particular device of the building; This selection can be done by *Zones* or *Categories*.
  - the status that must be met;
  - a text to define

Status	
My new device: Sta	atus
True	
Historical record text:	My new device: Status ON

6. Press "Save" button to store the changes.

Not enabled historical will record devices status but will not send emails.

It is possible to create a list of devices (and its status) to be recorded:

Description	
My historical	
Recipient	
My user	×
When p*	Devices J*
Daily At 11:00	My new device: Status oN
	My puth button: Status

In this example, the Master Server will log "My new device" and "My push button" changes and will send a daily report at 11:00 to "My user" associated email address:

From: Mail server At: 2013-05-03 11:00:00 Subject - Historical: My historical	
Sending frequency: Daily at 11:00 h	
My new device: Status ON Value for alarm: Event 1, Date: 2013-05-02 11:53:10, reading: Event 2, Date: 2013-05-02 17:00:00, reading:	1 1

My push button: Status pressed Value for alarm: 1 There has been no readings during the period.

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## Modifying, copying or removing an already associated device of a historical

In case of pressing over any "already added to historical" Device:

- 1. Both actual configured status and text will appear to permit its modification.
- 2. Two additional buttons will become visible to perform one of the following actions:
  - X: Remove the selected action from the historical
  - D: Duplicate it

Device	s 🔎		
X D Vy new device: Status ON	is	True	
My push button: Status pressed	is	True	

#### Copying and deleting an already created historical

This action can be performed this way:

- 1. Go to Visualization » Sidebar » Historical
- 2. Hold the calendar button. A new button will become visible:
  - X: Remove the selected historical

Back	Historical record sending	start
		admin Ů
New historical record	X My historical	Show all

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(	12	)	ICKEATING A PROJECT BACKUP
- 3		/	



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It is highly recommended to make a copy of the entire programming so you can restore it in the future.

This action can be performed following these steps:

1. Go to Settings » Backup, section "Make copy"

Make copy	
Name	1
Download	

- 2. Give it a name and click *Download* button
- 3. A Name.hpb file will be created with the entire configuration. Save it in a safe location

Restoration process can be done easily:

1. Go to Settings » Backup, section "Restore"

Restore	
Seleccionar archivo Ningún archivo seleccionado	
Upload	

- 2. Select the file (*Name.hpb*) which contains the previous configuration
- 3. Click Upload button. A message will be shown asking for your confirmation before proceeding

Atentio	n
By proceedir user account current log v	ng with the restoration of data-device, ts, scenes, recipes, calendars and will be deleted, are you sure?
	Yes No

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## **Icon list**



## **Factory reset**

1. Go to *Settings* » **Backup**, section *"Factory reset"* and click *Restore* button. A message will be shown asking for your confirmation before proceeding



Your device will reboot with its default settings. It is possible to login into to the system to restore any previously created backup with the following user and password:

User	admin
Password	admin

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Scenes

#### **External Call to a Scene**

Scenes can be played from any external app capable of sending URL commands:

http://master\_server\_IP/ordenesJSON.php?idEscena=X

Scene ID (X) can be obtained following these steps:

- 1. Go to Scenes
- 2. Select the particular scene you want to be called
- 3. The ID is shown at the end of the URL (i.e.: http://192.168.1.145/escenas4.php?id=3)

# Troubleshoting

25 www.**atomity**.com AT-5D-MS-MS-01 | v1.1.1

# **Device types**

## KNX

Category	ID	Туре	Visualization	Parameters	R	EIS	Format	Values
		Simple light		ON/OFF		1	1 bit	[0,1]
	K11		¥	Status	х	1	1 bit	[0,1]
		Dimmable light	Ο	ON/OFF		1	1 bit	[0,1]
	K12		¥	Value		6	1 byte	[0100]
Lighting				Value status	х	6	1 byte	[0100]
				Red value		6	1 byte	[0255]
		RGB light		Green value		6	1 byte	[0255]
	K13			Blue value		6	1 byte	[0255]
				Status red	Х	6	1 byte	[0255]
				Status green	Х	6	1 byte	[0255]
				Status blue	Х	6	1 byte	[0255]
				Stop object		7	1 bit	[0,1]
	K21	Simple blind		Movement object		7	1 bit	[0,1]
		Adjustable blind		Stop object		7	1 bit	[0,1]
	1/22		STOP	Movement object		7	1 bit	[0,1]
	KZZ			Position		6	1 byte	[0100]
Blinds				Status	Х	6	1 byte	[0100]
		Special blind		Open slats		7	1 bit	[0,1]
				Close slats		7	1 bit	[0,1]
	K23		STOP E	Stop		7	1 bit	[0,1]
				Slats position object	Х	6	1 byte	[0100]
				Position object	Х	6	1 byte	[0100]
	K31	ON/OFF control		ON/OFF		1	1 bit	[0,1]
				Status	Х	1	1 bit	[0,1]
				Invert logic		-	-	
НVАС	1/22	KNX thermostat control		KNX mode selection		6	1 byte	[0255]
	K32			Status	х	6	1 byte	[0255]
	222	Temperature control		Setpoint input		5	2 bytes	[-273670760]
	K33			Setpoint output	Х	5	2 bytes	[-273670760]
	K34	Jung thermostat temperature control		Setpoint modification input		6	2 bytes	[0255]
			<b>—</b>   18.5 °C   <b>↓</b>	Setpoint temperature	Х	5	2 bytes	[-273670760]
				Re-send setpoint modifcation input	Х	6	1 byte	[0255]
	K35	Temperature	21.7 °C	Temperature value	Х	5	2 bytes	[-273670760]
Safety	K41	Technical alarm		Alarm status	Х	1	1 bit	[0,1]
			No Alarm	Text if no alarm				
				Text if alarm				
	K51	Control (1 bit)	205	ON/OFF		1	1 bit	[0,1]
				Status	х	1	1 bit	[0,1]
	K52	Generic control (0-100%)		Value (0-100%)		6	1 byte	[0100]
Generic controls	K53	Generic control (0-255)		Value (0-255)		6	1 byte	[0255]
	K54	1 bit control (without status)		ON/OFF		1	1 bit	[0,1]

Weather	K61	Temperature	21.	7 °C	Temperature value	Х	5	2 bytes	[-273670760]
	K62	Wind			Wind speed	Х	5	2 bytes	[-670760670760]
	K63	Brightness	35491.84 KLux		Brightness value	Х	5	2 bytes	[-670760670760]
	K64	Rain	NO		It rains	Х	1	1 bit	[0,1]
	K65	Twilight sensor			Twilight	Х	5	2 bytes	
	K66	Humidity			Humidity value	Х	10	2 bytes	[065535]
Energy	K71	Zennio three-phase energy meter	Total energy	Total cost	Total energyxTotal emissionsx	Х	11	4 bytes	[04294967295]
				0.71 €		5	2 bytes		
			Total emissions 2.85 CO2		Partial reset	1	1 bit	[0,1]	
					Energy Reading request		1	1 bit	[0,1]
				1.00 KW	Instantaneous power	Х	5	2 bytes	[-670760670760]

R = In case "Answer if reading" checkbox is checked, Master Server will send to the bus the last stored value

## Philips Hue

Category	ID	Туре	Visualization	Parameters
Lighting	H11	Philips Hue Light	-	ID
	H12	Philips Hue Group	-	ID

#### SONOS

Category	ID	Туре	Visualization	Parameters
Multimedia	S81	SONOS Component	-	IP