### Gateway KNX-GW-IP-2TE

### Product Group 1

KNX-GW-IP-2TE	Article	Article Description	Article-No.
KNX		Document: 7030_ex_KNX-GW-IP-2TE.pdf	
	KNX-GW-IP -2TE	IP gateway to link the ETS ( PC software tool ) to the KNX bus. Operating Voltage: 9 30 VDC / 1,5W Operating temperature: -25 +55°C DIN Rail mounted housing 2 units width ( 35 mm ) IP20	40400002

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Application Description Gateway KNX-GW-IP-2TE

### 1 First Steps

To use the gateway all 3 connectors must be connected.



As soon as all connections are established and your router or server is working as a DHCP-Server (Dynamic Host Configuration Protocol) the IP-Gateway of your ETS can be selected as a possible connection.

Discovered connections

Realtek PCIe GBE Family Controller (3) - 224.0.23.12

ArcusIPGW - 192.168.1.188 (MAC: 00:04:A3:E3:D3:47)

The default name at transmission is **ArcusIPGW**. Additionally, a label showing the distinct MAC address can be found on the device itself. This allows assignment via the MAC address in instances where different KNX-IP-Gateways have already been set up.

In this example, the IP-Gateway has been assigned the IP-address 192.168.1.188

Additional settings can be accessed via the web-interface of the device. To access these, open your default browser and enter the IP-address into the address bar. In the case of a functioning nameserver, access to the gateway is also possible via IP-Gateway-Name´.yourdomainname.

(e.g. ArcusIPGW.fritz.box with a fritzbox as nameserver).

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### 2 Overview

Having successfully entered your IP address into the address bar, you will be taken to the overview.

Overview	Functions
Network Settings	Tunneling with up to 16 channels Routing Group monitor for HTML-Browser (only browsers with websockets)
KNX-IP	Dus monitor (only with routing deactivated) NTP-Client with KNX time server function Data logging on SD-Card with lists and graphs on browser
Address tables	Up to 10 events, time- und group- based for command line functions und scripts Messenger client for XMPP ( Jabber ) SMTP client for Email notifications
Time server settings	Local group cache for lowening the businead on read requests Simple <u>HTML-Visualisation</u> with standard HTML syntax
Security & reboot	Security
KNX group monitor	Different passwords for different functions Security switch for hardware-deactivation of different functions
KNX telegram logger	Open system
Events & scripts	Data access with sftp Text console with ssl
HTML-Visualisation	Arcus-EDS GmbH Visit us on www.arcus-eds.com
	Arcus-EDS KNX-IP Gateway
Logout	Date: 2016-05-27

Here you will be shown a summary of the general functions and capabilities of the system.

You can navigate through the configuration options via the menu on the left hand side of your screen. Selecting the first option opens the following dialog box.

Overview	Login
	Username:
Network Settings	Password:
KNX-IP	Log In
Address tables	Arcus-EDS KNX-IP Gateway
Time server settings	Date: 2016-05-27
Security & reboot	
KNX group monitor	
KNX telegram logger	
Events & scripts	
HTML-Visualisation	
Logout	

No initial username and password are given, so to continue press enter or click Log In. If no additional settings are visible, it might be because the safety switch is deactivated. Activate it for unrestricted access.

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# SYS IP

### **3 Network Settings**

Overview	Network		
	Device name in network	ArcusIPGW	
Network Settings	MAC-Address	00:04:A3:E3:D3:47	
KNX-IP	DHCP		
Address tables	IP-Address	192.168.1.188	
Time server settings	Network gateway address	192.168.1.1	
Security & reboot	Network mask	255.255.255.0	
	DNS name server	192.168.1.1	
KNX group monitor	Save		
KNX telegram logger	Arcus-EDS KNX-IP Gatew	ay	
Events & scripts	Date: 2016-05-27		
HTML-Visualisation			
Logout			

Device network name (*Standard: ArcusIPGW*) can be changed as desired and serves to identify the device within the network. MAC-adress: This cannot be changed, and is printed on the device's box.

#### DHCP: Active/ Inactive

#### DHCP activ:

No manual set up required. The following boxes are there only to display the current configuration. The values are not provided by the DHCP-server.

DHCP	
IP-Address	192.168.1.188
Network gateway address	192.168.1.1
Network mask	255.255.255.0
DNS name server	192.168.1.1

#### DHCP inactiv:

Manual set up required. IP address, network mask and DNS nameserver need to be configured manually. Please consult with your system administrator to find out the necessary information regarding settings.

DHCP	
IP-Address	192.168.1.188
Network gateway address	192.168.1.1
Network mask	255.255.255.0
DNS name server	192.168.1.1

After having filled out the infomation appropriately, confirm your entries by pressing "save".

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### Application Description Gateway KNX-GW-IP-2TE

### 4 KNX-IP

Overview	KNX-IP				
	Port	3671			
Network Settings	Tunneling	<b>V</b>			
KNX-IP	Routing	V			
Address tables	Discover				
Time server settings	Multicast address	224.0.23.12			
Security & reboot	Individual address1	15.3.0			
	Individual address2	15.3.1			
KNX group monitor	+				
KNX telegram logger	Group cache	V			
Events & scripts	Save				
HTML-Visualisation	.esf Project file				
	File: "Aufsteller.	esf"	Delete		
Logout	Durchsuchen Ke	eine Datei ausgewählt.	[	Upload	
	Arcus-EDS KNX-IP Date: 2016-05-27	Gateway			

The **Defaultport** for KNX/IP is **3671**. Changing the port will disable the automated detection by the ETS. You may however customize the port and set up an individual KNX/IP-Network via the ETS communication settings.

This **Standard Multicast Address (224.0.23.12)** is reserved. Changing the address will disable the standard-routing. If multiple devices with another address are already in place you can set up an individual KNX/IP-routing network.

#### The Physical Adresses preconfigurations are 15.0.0 and 15.0.1.

These need to be customized according to your KNX-topology. You can use up to 16 individual addresses which will be available for simultaneous tunnels.

Tunneling can be deactivated. In such cases connecting via tunneling is not possible.

Routing can be activated. The presetting is 'deactivated' in order to avoid any resulting problems in the case of multiple devices operating without correct routing tables.

Discovery is 'activated'to enable localizing of the device within the network by the ETS. In the event that automated detection is not possible, the connection has to be configured manually in the ETS.

If group-cache is active when there is a read request with lower priority, the telegrams will be answered directly by the gateway, provided that data is already available. In the ETS you can find telegram responses within the group monitor. No responses are displayed within the html-group monitor, which is responsible for displaying telegrams on the bus.

#### After having filled out the required fields , save your changes by pressing "save".

To select group addresses in several input boxes by name, a .esf-File can be installed on the device.

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### 5 Address Tables

In this menu all configurations relating to Acknowledge, logging and routing tables can be adjusted.

Acknowledge Tables are helpful in reducing traffic on the KNX-bus. Whenever a telegram in the KNX-bus is not being confirmed it will be resent up to 5 times. This uncessary bus utilization can disturb the process and may even result in data packets getting lost.

**Logging Tables** determine which adresses are acquired and stored in the KNX-Bus. Data is saved using a  $\mu$ SD-card of up to 32 GB in size, which is inserted into the front of the device. All the traffic is saved by default. (  $\mu$ SD-card is not included in delivery )

**Routing Tables** are required whenever KNX-values are to be delivered to IP or from IP to KNX. This filtering regulates the traffic so that only specifically selected objects are beeing tranferred. Any other communication is disabled.

The parameterization for Acknowledge and Routing tables can be carried out via group address and/or physical adsress.

All telegrams

	Group addresses
ork Settings	+
(NX-IP	Save
ess tables	Physical addresses
erver settings	+
ity & reboot	Save
oup monitor	
egram logger	Logging tables:
te 8 envinte	Group addresses
is a surpts	+
Visualisation	Save
	Routing tables:
ogout	Group Address forward IP to KNX
	Broadcast (0/0/0)
	Group address forward */*/*
	+
	Save
	Physical Address forward IP to KNX
	Default ()
	Physical address forward 8.*.*
	+
	Save
	Group Address forward KNX to IP
	Broadcast (0/0/0)
	Group address forward */*/*
	•
	Save
	Physical Address forward KNX to IP
	Physical address forward 8.*.*
	+
	Save

Acknowledge tables:

### Filtering example:

\*/\*/\*

1/1/0	Filtering of the group address 1/1/0
1/1/0 1/5/0	Filtering of the group addresses 1/1/0 und 1/5/0
1/1/*	Filtering of the subgroup 1/1/xxx
1/1,3,22/*	Filtering of the subgroups 1/1/xxx , 1/3/xxx und 1/22/xxx
1/1-6/4,5,30	Filtering of the group addresses 1/1/4 , 1/1/5 , 1/1/30 1/2/4 , 1/2/5 , 1/2/30 1/3/4 , 1/3/5 , 1/3/30 1/4/4 , 1/4/5 , 1/4/30 1/5/4 , 1/5/5 , 1/5/30 1/6/4 , 1/6/5 , 1/6/30

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### 6 Time Server Settings

Overview	Time server		
	NTP-Server	ntp.web.de	
Network Settings	Time zone	+1 -	
KNX-IP	Daylight saving time	V	
Address tables	KNX sending time	Do not send 🔹	
Time server settings	KNX Time group		
	KNX Date group		
Security & reboot	Timestamp	Thu 30 Jun 2016 16:55:51	Sat time
KNX group monitor	Sava	110 30 301 2010 10.33.31	Set une
	Save		
KNX telegram logger	Arcus-EDS KNX-IP	Gateway	
	Date: 2016-05-27		
Events & scripts			
HTML-Visualisation			
Logout			

Temporal information is aquired by The KNX-IP gateway via. a NTP- time server (Network Time Protocoll) providing an NTP-time server is available.

By choosing the correct time zone according to the automatic summer time, the local time is set relative to the UTC time ( formerly GMT ).

The gateway can be used as a KNX-time server. The date and time will be transmitted periodically in one of the following intervals :

- not sent at all
- every minute
- every hour
- 1x per day

If the time and date are transmitted every minute, both will be sent at the beginning of every minute. In case of the daily intervals the time and date information are sent at around 2 am. When the addresses for time and date are added in the correct format (x/x/xxx) the time server is activated.

The correct connection to the time server can be checked through the time stamp. If the time server is not available the time should be synchronized with the computer time via the button 'set time'.

If there is no permament network connection the internal clock will continue even in the case of power failure. A slightly lower precision is to be be expected though.

#### NOTE !

For correct data logging it is necessary either for the the time to be set or a NTP-server to be available !

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### 7 Security & Reboot

### To set up your login and password

Your *login* and *password* are not set by default, you can however set them up yourself.

In order to use *SSH/SFTP* a set user and password are required. Only then is the device available via telnet or putty or even as a sftp-client.

### <u>Update</u>

Updates will be provided via our website ( *www.arcus-eds.de* ) as soon as they are available. Likewise, customised modifications will be delivered as packets via update

### Action Security Switch

All selected functions will be shut down by activating the safety switch ( refer to front view as seen below ).

#### <u>Reboot</u>

The entire system will be rebooted. The device will not be responsive for a few seconds.

#### **Configuration**

System configurations can be saved and restored. Their settings consist of the following selections:

- Network configurations
- KNX-IP
- Address tables
   Time server setting
- Time server settingsSafety & restart
- Salety & resta
   Automation
- Visualization

#### Detailed front view:

Overview	Set login and passwords			
Network Sattings	Login:			
Network Collings	Password:			
KNX-IP	Repeat password:			
Address tables	Save			
Time server settings	SSH/SFTP Login:			
Security & reboot	SSH/SFTP Password:			
	Save			
KNX group monitor	Update			
KNX telegram logger	Durchsuchen Keine Datei a	usgewählt.	Update	
Events & scripts	Action security switch			
HTML-Visualisation	Deactivate routing			
	Deactivate tunneling			
Logout	Deactivate FTP and SSH	<b>V</b>		
	Deactivate Settings	<b>V</b>		
	Deactivate group monitor			
	Deactivate telegram logger			
	Deactivate visualisation			
	Deactivate visualisation editing			
	Save			
	Reboot			
	Reboot			
	Configuration			
	Download Configuration			
	Durchsuchen Keine Datei a	usgewählt.	Restore Cor	figuration

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The power-LED lights up as soon as AUX is plugged in. If the LED does not light up, please check the power supply terminal. µSD-card is inserted and mounted via switch.

Status-LED  $\mu$ SD-card signals the operating status:

Off	$\mu$ SD not connected
Short blinking	$\mu SD$ successfully disconnected and can be removed
Periodic blinking	μSD connecting
On	μSD connected

### 8 KNX Group Monitor

Overview	Groupr WebSoc	nonitor with webso ket status : Open	cket interfac	e						
Network Settings	Scroll	V								
KNX-IP	Group ad	Idressed 🔽	3-Stage 👻							
Address tables	Physical	ly addressed 📃								
Time server settings	Filter Clear ta	1/1/*								
Security & reboot	Group		Туре		Value Cyclic	Seconds	+ Save Restore			
KNX group monitor	1/1/2		] 1Byte		100	0 Write 1	00   39% 10:23:25			
KNX telegram logger	1/1/3		] 1Byte	✓ Read	255	0 Write 2	55   -1   100% 10:23:28			
Events & scripts	No.	Time	Service	Р	Source	Destination		Route	Value	Raw Data
	2	10:22:56.923	Write	н	15.3.0	1/1/2		7	20   8%	94F3000902F2008014F5 NCONF
HTML-Visualisation	3	10:23:00.742	Write	н	15.3.0	1/1/2		7	30   12%	94F3000902F200801EFF NCONF
	4	10:23:04.740	Write	н	15.3.0	1/1/2		7	40   16%	94F3000902F2008028C9 NCONF
Logout	5	10:23:08.710	Write	н	15.3.0	1/1/2		7	50   20%	94F3000902F2008032D3 NCONF
	6	10:23:12.234	Write	н	15.3.0	1/1/2		7	60   24%	94F3000902F200803CDD NCONF
	7	10:23:15.058	Write	н	15.3.0	1/1/2		7	70   27%	94F3000902F2008046A7 NCONF
	8	10:23:17.823	Write	н	15.3.0	1/1/2		7	80   31%	94F3000902F2008050B1 NCONF
	9	10:23:21.231	Write	н	15.3.0	1/1/2		7	90   35%	94F3000902F200805ABB NCONF
	10	10:23:25.327	Write	н	15.3.0	1/1/2		7	100   39%	94F3000902F200806485 NCONF
	11	10:23:28.730	Write	н	15.3.0	1/1/3		7	255   -1   100%	94F3000903F20080FF1F NCONF
	Busload:	0 % Repeated: 0/0								
	Arcus-EL Date: 2016	OS KNX-IP Gateway								

Using the KNX-group monitor allows for the monitoring and transfer of telegrams via the KNX-bus in real time. The site of the KNX-group monitor is subdivided into a configuration and a telegram section.

Within the configuration can a 2- or 3- stage adressing be selected and communication of the physical adresses be hidden.

For the display, automatic scrolling can be either enabled or disabled and an address filter can be set for monitoring specific addresses. In this way, a filter can be applied to a singular address, whole main- and sub groups, or address ranges.

#### Filtering example:

[ blank ]	All telegrams are displayed.
1/1/0	Only telegrams of the group address 1/1/0 are displayed.
1/1/0 1/5/0	All telegrams of the group adresses 1/1/0 und 1/5/0 are displayed.
1/1/*	All telegrams of the subgroup 1/1/ are displayed.
1/1,3,22/*	All telegrams of the subgroups 1/1/, 1/3/ and 1/22/ displayed.
1/1-6/4,5,30	All telegrams of the group adresses
	1/1/4 , 1/1/5 , 1/1/30 , 1/2/4 , 1/2/5 , 1/2/30 , 1/3/4 , 1/3/5 , 1/3/30
	1/4/4, 1/4/5, 1/4/50, 1/5/4, 1/5/5, 1/5/30, 1/6/4, 1/6/5, 1/6/30 are displayed.

Within the group monitor itself, several lines (*max 100 lines*) can be displayed for one specific group adress. Each line allows for one value to be written or read in the individual group address. The current value is then displayed at the end of the line with a time stamp. In addition to one-time sending, periodical sending is also possible. In the case of recurring tasks, the configuration can be saved (*locally on your PC*) then restored for future use.

The table below the lines shows all telegrams which fit the set parameters. The approximate bus utilization and the amount of repetitions is displayed below the table every second.

SYS IP

### 9 KNX-Telegramlogger

The KNX-IP-gateway is able to save telegrams. The KNX-telegram logger lists the saved telegrams. It is possible to set a timeframe as well as a group address filter.

With the control panel "Lines" you can type in the amount of lines to be loaded and by activating 'scrolling' the last loaded lines are displayed.

Loading of the telegrams is initialised with the command 'load data' and the amount of x lines will be displayed. By clicking on 'More' the susequent x lines will be loaded. Alternatively the data can be downloaded to a PC in CSV-format.

Overview	Datalogger with websocket-interface								
Network Settings	SD-Card 1.87GB total / 1.87GB free WebSocket status · Open								
KNX-IP	Scroll 🔽	Scroll 🗹							
Address tables	tables Date 5.7.2016 Time from 00:00 Time to								
Time server settings	Rows 100 Filer 1/2/*								
Security & reboot									
KNX group monitor	No. Ti	t More Clear table	ervice P	Source	Destination	Route	Value	Raw Data	
KNX telegram logger	72 05	5.07.2016/16:49:21.656 W	'rite L	1.1.2	1/2/17	6	5640   61.76	9C11020A11E300801608	^
Events & scripts	73 05	.07.2016/16:49:21.712 W	'rite L	1.1.2	1/2/28	6	3073   20.50	BC11020A1CE300800C01	
HTML-Visualisation	74 05	07.2016/16:49:21.732 W	'rite L	1.1.2	1/2/28	6	3073   20.50	9C11020A1CE300800C01	
	75 05	.07.2016/16:49:21.752 W	'rite L	1.1.2	1/2/28	6	3073   20.50	9C11020A1CE300800C01	
Logout	76 05	07.2016/16:49:21.772 W	'rite L	1.1.2	1/2/28	6	3073   20.50	9C11020A1CE300800C01	
	77 05	07.2016/16:49:24.584 W	rite L	1.1.2	1/2/17	6	5778   67.28	BC11020A11E300801692	
	78 05	07.2016/16:49:24.604 W	rite L	1.1.2	1/2/17	6	5778   67.28	9C11020A11E300801692	
	79 05	07.2016/16:49:24.624 W	'rite L	1.1.2	1/2/17	6	5778   67.28	9C11020A11E300801692	
	80 05	07.2016/16:49:24.644 W	rite L	1.1.2	1/2/17	6	5778   67.28	9C11020A11E300801692	
	Diagram 1/	2/0		Float •					
	1/	2/17		Float -					
	1/	2/28		Float -					
		Common scale		Diagram					
	Arcus-EDS Date: 2016-05	KNX-IP Gateway -27							

To visualize the data, up to three different group addresses can be displayed in one graph. Every address is given a seperate y-axis. To compare similar physical values it is possible to use a common scale. A visualization of the data is possible while the values are being loaded. Via 'Update' the already loaded values can be displayed. The diagram can be locally saved, by right clicking the preview picture.



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### **Application Description** Gateway KNX-GW-IP-2TE

### 10 Events & Scripts

Overview	Events and automation
Network Settings	E-Mail:
	Hda
KNX-IP	Name AccusADX-1P-Gv From bobdy/@noreply.com
Address tables	TLS V STARTTLS V
Time server settings	Host prop_host Port 587
Security & reboot	Authentication 📝
KNX group monitor	User test@horepty.de
KNX telegram logger	Pasword
Events & societs	Service
Events & scripts	Sive
HTML-Visualisation	XMPP:
	166a
Logout	XMPP account (sender JID)
	XMPP accurt pasword
	<u>Sve</u>
	Presence simulation:
	Limeninin days (g. Lau) yoo 2000 until (2000 Lau) yoo 2000 until (200
	Elialer oljek (1/12) Elialer value (2) Urable value (2) Orable value (2)
	Events:
	Eventlype: Object update   Event:
	Execute prim
	Sve
	Script files
	Durchsuchen
	Arcus-EDS KIUK-P Gateway Dez 2014-05-27

To receive notifications, an email and/or XMPP messenger client must be installed. it is recommended that you ask your systemadmin or provider for the correct settings of the SMTP-server. Should problems with the µSD-card arise, a service-email can be sent to a mail address, provided that a SMTP-connection has already been set up.

### NOTE !

#### Email distribution and/or Instant Message is not possible in instances of incorrect configuration !

#### Presence simulation

Up to 11 group address fields of specific addresses or address sections can be played back during the simulation This goes back 28 days max, provided that data is available on the µSD-card. The simulation can be either activated or deactivated through a group address. Therefore the prsim function, a function of the enable-object, needs to be set as an event.

#### **Events**

A maximum of up to 11 event-based actions can be realized simultaneously. This is done by either typing the command to execute into the 'run' line or selecting the corresponding script file. You can use either Linux Bash or Python to do this.

#### Events are: Timebased : either daily or hourly Objectbased : in cases where an update or a modification has an object value equal to zero or unequal to zero Once : during a system boot ( after x minutes )

#### Script files

Here you chose from the available scripts. Please note that the box 'Dos2Unix' must be checked to avoid errors occuring during the conversion between Windows and the OS of the IP-gateway. This would result in your transferred scripts being executed incorrectly. The script files can also be downloaded for modification purposes.

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### 11 Visualisation

The gateway can link html-sites with KNX-files and visualize them in every browser, provided that websockets are supported.

Overview	Visualisation
Network Settings	HTML:
Network Octaings	File 1: main.html Delete
KNX-IP	File 2: index.html Delete
Address tables	File 3: <u>1.html</u> Delete
Time server settings	File 4: <u>2.html</u> Delete
Security & reboot	Durchsuchen Keine Dateien ausgewählt. Upload
KNX group monitor	Static:
KNX telegram logger	File 1: style.css Delete
Events & scripts	File 2: smvisu.js Delete
HTML-Visualisation	Durchsuchen Keine Dateien ausgewählt. Upload
	Arcus-EDS KNX-IP Gateway
Logout	Date. 2010-00-21

The visualization is available at *http://'gatewayname'/visu/* resp. *http://'gatewayname'/visu/index.html* (Example: *http://arcusipgw.fritz.box/visu/* resp. *http://arcusipgw.fritz.box/visu/* index.html )

One page, index.html, must be in place, and further pages can be added as desired. The pages are precompiled and can integrate a general structure page ( in this example main.html ). The visual appearence can be changed using the stylesheet `style.css'. The KNX-elements are html-input-elements, which are filled out with data via a script (smvisu.js). The default files can be downloaded and modified on your PC. Several icons and icon series for standard-KNXapplications are available to you. KNX-data can be edited and sent with Javascript via. "hidden" input-elements. For a professional layout, any webdesigner with a knowledge of html can be consulted.



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# arcus-eds | KNX

1-Bit Sprites

lcons	light 🛛 🖯	🔆 bulb		updown	<b>↑</b>	blinds			
Pseudoelemente	comfort	standby		night		protection			
	hesting	 )]∞oling		heatingcoolir	» ( <b>†</b>	) winter			
	dook 🤇	timer	<u> </u>						
	HVAC & Venti	lator sprites							
	Wert 0 🖵								
	hvac 🛛 🛃								
	fan 🕞								
	1-Bit ON/OFF								
	up/down	<b>†</b>	<b>I</b> • •	olindsup/down					
	bulboff/on		·	ightoff/on		*			
	dimmup/down								
	heatingoff/on			coolingoff/on					
	hesting/cooling			vinteroff/on					
	timeroff/on	2		slockoff/on					
	auto	Ð	comfort (		standby				
	night		protection						
	Arcus-EDS KNX-IP Date: 2016-05-18	Sateway							
		147-							
Elemente		Wert							
lcons		Bitfold							
Pseudoelement		01: 02:	03:	04: 05:	08.	07: 08:	Byte sender		
		Scenet	Control				- Jue server		
		ocene.							
		Gruppe1:							
		Arcus-EDS Date: 2016-05-1	KNX-IP Gat 18	eway					

IP

Subject to change

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**Application Description** Gateway KNX-GW-IP-2TE

### Example for a simple HTML visualization

arcus-eds	Einfache HTML-Visu	ualisierung für Brow	vseranwendungen
SERVERRAUM	Serverraum 01		
	Temperatur1		23.50°C
	Temperatur2		72.00°C
	Raumtemperatur	27.58°C	
	Servertemperatur	25.60°C	$\bigcirc$
	Raumfeuchtigkeit	53.40%	
	Arcus-EDS KNX-IP Gateway Date: 2016-05-18	/	

### **General information**

To use groupmonitoring and telegramlogging your browser must support websockets. If this is not the case, a notification will be displayed on the respective pages.

In certain instances, such as the device being shut down right after a change in configuration, a loss of configuration files may occur. In that case the red RESET-LED will blink periodically during rebooting. To reset the device hold down the RST-key during booting until the RESET-LED turns off and then back on again. Please note that it is recommended to wait 10 seconds after a change in configuration before shutting the device down. Save your configurations to restore them loss-free.

To mount a µSD-card insert the card with the mount-switch turned off. Then switch it on. If a µSD-card fails to mount, turn the switch to 'unmount' again, remove the card, and repeat the steps.

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### arcus-eds | KNX

Product Page Gateway KNX-GW-IP-2TE

> 9...30VDC max. 1,5W 2-pin terminal with screws

10/100 Mbit/s RJ45

in preparation

DIN rail mounting

IP20

storage operation

KNX 2-pin terminal (red / black)

-25 .. +85°C

-25 .. +55°C

plastics housing DIN rail / 2 Units ( 35 mm )

approx. 120mW (at 24V DC)

### 12 Product Page

The **KNX-GW-IP-2TE** is used for coupling the ETS ( PC software tool ) via Ethernet to the KNX bus for addressing and programming KNX components.

Using the KNX-group monitor allows for the monitoring and transfer of telegrams via the KNX-bus in real time. The site of the KNX-group monitor is subdivided into a configuration and a telegram section.

The KNX-IP-gateway is able to save telegrams. The KNX-telegram logger lists the saved telegrams. It is possible to set a timeframe as well as a group address filter.

To visualize the data, up to three different group addresses can be displayed in one graph.

The gateway can link html-sites with KNX-files and visualize them in every browser, provided that websockets are supported.

All selected functions are switched off by actuating of the safety switch.

### 13 Technical Data

Operating voltage

Terminal bus voltage

Ambient temperature

Ethernet

Protection Mounting

Housing

Article number

USB

Power consumption (KNX)

#### Technical Data - KNX-GW-IP-2TE

Article No. 40400002
•       •
KNX-GW-IP-2TE

### **General information**

To use groupmonitoring and telegramlogging your browser must support websockets. If this is not the case, a notification will be displayed on the respective pages.

40400002

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#### imprint

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#### Safety regulations

Attention ! Installation and assembly of electrical equipment must be performed by a qualified electrician. Compliance with the relevant safety guidelines of VDE, TÜV and the appropriate energy supply companies are ensured by the buyer / user of the system. For defects and damages caused by improper use or non-compliance of the operating instructions, no warranty is given.

#### Warranty

We accept the guarantee in accordance with statutory provisions. Please contact us in case of malfunction and return us the unit with an error description to our below address.

#### Manufacturer



#### **Registered trademarks**

CE

The CE sign is a free trade sign addressed exclusively to the authorities and does not guarantee any properties.



Registered trademark of the Konnex Association.

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