Functional description Multitouch/BACnet

UMG 604 / UMG 605 / UMG 508 / UMG 511

BACnet activation UMG 604,Article no.: 52.16.081BACnet activation UMG 605,Article no.: 52.16.083BACnet activation UMG 508,Article no.: 52.21.081BACnet activation UMG 511,Article no.: 52.19.081Multitouch application, Article no.: 51.00.207



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Prerequisite

The Power Analyser for the BACnet communications must be activated to use the Multitouch function. The activation code required for this must be purchased and can be pre-entered at the manufacturing factory - or subsequently directly on the device - with the help of a numerical code.



Attention

Without paying for the BACnet option, the BACnet specific expansion cannot be used!

Description	Art. no.
BACnet activation code UMG 604	52.16.081
BACnet activation code UMG 605	52.16.083
BACnet activation code UMG 508	52.21.081
BACnet activation code UMG 511	52.19.081

Setting the activation code with UMG 604 / 605:

- Set the device to programming mode (see operating instructions) to enter the activation code.
- Set address 520 and enter the first part of the license as the value.
- Then set address 521 and enter the second part of the license as the value.

Address Description		Setting range
520	Activation "BACnet" option, license part 1	09999
521	Activation "BACnet" option, license part 2	09999

Setting the activation code with UMG 508 / 511:

• The entering of the activation code is implemented directly via the device display. In doing so observe the "Expansion/activation" chapter (UMG 508) or "Display/activation" chapter (UMG 511) of the corresponding operating instructions.

Integrate Power Analyser into the GridVis

To integrate the Power Analyser into the GridVis evaluation and configuration software an Ethernet connection must be established to the device and the TCP/IP address defined.

- Establish a connection between the PC and the device (see connection example) via a direct connection or via a switch/router. It is recommended to use CAT5 cable.
- Determine or set the addressing mode ("fixed IP" or "DHCP"). If "fixed IP" mode is selected then set the TCP/IP address of the device.



Fig. Example connection: Integration into a network with DHCP server. UMG and PC are assigned their IP addresses automatically from a DHCP server.

Switch

Patch cable

Fixed IP address

In simple networks without a DHCP server, the network address has to be set directly in the device.

With a direct PC-UMG connection, note:

• Use a crossover patch cable.

Patch cable

 The first three segments of the IP addresses for the device and the computer should be identical. The last segments must be different! The subnet mask must match in all four blocks.
 Example:

Computer's IP address:	192.168.000.020 with the subnet mask: 255.255.255.0
UMG's IP address:	192.168.000.021 with the subnet mask: 255.255.255.0

DHCP mode

DHCP allows for the fully automatic integration of a UMG into an existing network without additional configuration. When started, the UMG automatically obtains the IP address, the network mask and the gateway from the DHCP server.



Attention

The connection of the UMG to an existing Ethernet network may only be carried out after discussion with the network administrator!

Integrating the UMG 604 / 605

- Change the device to programming mode. To do so press buttons 1 and 2 simultaneously for approx. 1 second. With the password query deactivated the programming mode is then started and identified with the text "PRG". The first digit of the address flashes.
- Set the address 205 for the selection "DHCP-Modus" (=2) or "Fixed IP address" (=0).
 - To do so, use button 2 to set the first digit to the value 2. Then switch to the second digit with button 1 and set it to a value of 0 with button 2. Set the third digit to a value of 5 in the same way.
 - Once the address is set, switch to the setting with button 1. Use button 2 to set the parameter to the corresponding value (cf. "Addressing mode" table).
 - For further settings use button 1 to go back and enter the next address.
 - If no button is actuated for ca. 60 seconds, or if buttons 1 and 2 are pressed simultaneously for ca. 1 seconds, then the device exits programming mode and changes back to display mode.

Address	Description				
205	DHCP mode				
	0 = Fixed IP	1 = BootP	2 = DHCP client	3 = Zeroconf	Table: Addressing mode

- With the selection of "Fixed IP address", other additional network parameters must be set:
 - Setting the device IP address
 - Change to programming mode. Set the address 300 as described and set the first three digit block of the device IP address (cf. IP addresses table).
 - Then set the address 301 and allocate the second block of the device IP address.
 - Complete the entries with the addresses 302 and 303.
 - Setting the subnet mask
 - Set the subnet mask, using the same method as for configuring the device IP address, with addresses 304 to 307 (cf. IP addresses table).
 - Setting the standard gateway
 - Set the standard gateway (if present), in the same way as the IP address, with addresses 310 to 313 (cf. IP addresses table).
 - Note: Gateway adjustment is normally not required for the configuration.
- Read out the device address with "DHCP mode" selection:
 - Change to the programming mode as described. Set the address to 300, using buttons 1 and 2 and note down the three digit block in the Contents area. Carry out the same step for addresses 301 to 303 (cf. table under step 10).

Address	Description	Address	Description	ı	Address	Description	
300	IP address, xxx	304	IP mask,	xxx	310	IP gateway,	xxx
301	IP address, xxx	305	IP mask,	xxx	311	IP gateway,	xxx
302	IP address, xxx	306	IP mask,	xxx	312	IP gateway,	xxx
303	IP address, xxx	307	IP mask,	xxx	313	IP gateway,	xxx

Table: ID addresses

Integrating the UMG 508 / 511

- Start the configuration menu from the home display with button 1 ("ESC"). Change to the "Communication" entry with button 3 and open this with button 6.
- Similarly to above, set the selection to "DHCP". To do so mark the "DHCP" entry and open this via button 6. Select the corresponding entry "DHCP" or "Off" with button 3 or 4 and confirm this with button 6. Deactivate the entry in the case of networks without DHCP servers ("Off").
- With the DHCP mode deactivated ("Off") further network parameters must be set:
 - Setting the device IP address
 - Select the entry "Address" with button 3 or 4 and open this with button 6. Change the first digit of the address via button 3 or 4. Then switch to the second digit with button 5 and set this in a similar manner to above. Complete the IP address and confirm the entries with button 6.
 - Setting the subnet mask
 - Select the entry "Netmask" with button 3 or 4 and open this with button 6. Set the subnet mask in a similar manner to the setting of the IP address for the device.
 - Setting the standard gateway
 - Select the entry "Address" with button 3 or 4 and open this with button 6. Set the IP address for the Standard Gateway (if present) in a similar manner.
 - Note: Gateway adjustment is normally not required for the configuration.
- Reading out the device address:
 - Start the configuration menu from the home display with button 1 ("ESC"). Change to the "Communication" entry with button 3 and open this with button 6.
 - Note the addresses under "Address" and "Netmask".

Setting the IP address of the computer for a direct connection

PCs on company networks normally use DHCP. If you would like to assign a fixed IP address for the PC (e.g. for a direct PC to UMG connection), proceed as follows:



Attention

Settings in a company network can vary.



Attention

The connection of the UMG to an existing Ethernet network may only be carried out after discussion with the network administrator!

- Open the Network and Sharing Center in the Windows Control Panel.
- Open the status window via the LAN connection (fig. Network and Sharing Center).
- By selecting "Properties", it is possible to assign a fixed IP address to the PC (see fig. Process for defining a fixed IP address under Windows 7).

😋 🔵 🛛 😵 🕨 Control Panel 🕨	All Control Panel Items Network and Sharing Center	Search Control Panel			
Control Panel Home Change adapter settings Change advanced sharing settings	View your basic network information and set up cor PC129 (Nis computer) View your active networks Domain network Change your networking settings Set up a new connection or network Set up a new connection or network	Pincetions Pinternet Connect or disconnect Pipe Externet	Fig.: Network and	Sharing Center	
LAN-Verbindung General Connection IPv4 Connectivit IPv6 Connectivit Media State: Duration: Speed: Details Activity Bytes: IPves: IP	Status X y: Internet y: No Internet access Enabled 06:04:27 1.0 Gbps Sent — Received 115.921.356 613.620.079 Disable Diagnose Close	LAN-Verbindung Properties Networking Connect using:	Network Connection Configure ing items: works r for Microsoft Networks an 6 (TCP/IPv6) iscovery Mapper I/O Driver iscovery Responder install Properties V/Internet Protocol. The of fault at provides communication	Internet Protocol Version 4 (TCP/IP) General Yiu can get IP settings assigned au this capability. Otherwise, you neer for the appropriate IP settings. Obtain an IP address automat Use the following IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address au Obtain DNS server address au	4) Properties
			OK Cancel	Preferred DNS server: Alternate DNS server:	· · · · · · Advanced OK Cancel

Fig.: Process for defining a fixed IP address under Windows 7.

Insert the device in the GridVis software

- Open the GridVis software and load or create a project.
- Open the "Device" node in the project window and activate the context menu for the "Device" node with a right click of the mouse.
- Select the "Add new device" context menu item (cf. fig. Add new device).



Fig.: "Add new device"

• Select the type of device, listed under the device category, and confirm the selection with "Next".

Mew File			x
New File Steps 1. Choose File Type 2	Choose File Type Project: Grid2 Categories:	File Types: UMG96S UMG96RM UMG96RM-M UMG96RM-EL UMG103 UMG104 UMG503 UMG507 UMG507 UMG507 UMG507 UMG507	
	< Back	Next > Finish Cancel H	lelp
			<u> </u>

Fig.: "Add new device" - Device selection

 Set the connection type to "TCP/IP" and enter the corresponding device IP address (cf. chapter "Integrate UMG 604 / 605" or "Integrate UMG 508 / 511")

Mew UMG604		x
New UMG604 Steps . Configure connection	Configure connection Connection type UMG604 [TCP/IP] Host 192.168.000.020 time out [millisec.] 5,000 😤	
	< Back Next > Finish Cancel Help	Fig.: Configure device inte-

• Carry out a connection test after entering the device IP address. If the connection with the UMG has been established then device information - such as the serial number for example - will be displayed. The device can now be used and configured within the software.

🚂 Configure conne	ction (UMG508 Master - UMG604, Wage 🗙
Connection type TC	P/IP v
UMG508 [TCP/IP]	
Host	192.168.003.66
time out [millisec.]	5,000 💭
	Connection test
	92.168.003.66
ſ	Show device info
	Serial number: 2200-2401 Hardware revision: 0005 Ethernet Profibus BACNET EMAX
	Firmware version: 2.034 2013-07-24 07:45:00
	OK Cancel Help Fig: Successful connection test for device

Further information on using the GridVis software can be found in the internet at: https://wiki.janitza.de/display/GRIDVIS40/GridVis-Dokumentation+4.0

Installing the "Multitouch" (Touch & BACnet) application

If the BACnet has been activated for the UMG and there is a connection between the computer and the device, then the "Multitouch" application can be installed via the GridVis software. With the help of this application it is possible to display and process up to 31 slave devices on the device homepage of the Power Analyser.



Attention

The "Multitouch" application must run alone on the Power Analyser. The installation of additional applications is not possible!

• Open the "Extras / Install applications" menu in the GridVis system and select the corresponding application via the "..." button. If the application has been selected then further information is listed in the description field. Confirm the selection with the "Next" button.

Steps	Select app file (1. from 3)
 Select app file Select devices Select Jasics 	File C:\Temp\MultitouchV40-Build1-5100207.egg Name Monitoring Description Item No.: 5100207 Construction: LXMASTER up to 31xSlave 1xJPC35 (optional) homepage expansion stations choice Versions number: V4.0 Build 1 made by Janitza
	<back next=""> Finish Cancel Help</back>

• Select the corresponding device in the following field and confirm the selection with "Next".

<u>.</u>	Install app				×	
5	teps	Select devices	s (2. from 3)			
1	Select app file Select devices Select large (IMCERS Master	Device(s)				
³	- UMG604, Wagen unten)	Project	Connection test	Туре	Name	
		grid 1	X	UMG511	Gerät-4	
		grid 1	<u>X</u>	UMG604	umg604-he.tst	
		grid 1	<u>Ж</u>	UMG605	UMG 605	
		grid 1	×	UMG508	UMG508 Maste	
						-
		< Back	Next >	Finish	Help	Fig.: Device selection fo

 Indicate which program location the application should be saved to. Because at least two program locations will be required for this, at least two program locations should be selected by multiple marking! To do so, mark a program location with the mouse and then select a second with an additional mouse click whilst simultaneously holding down the <CTRL> key.

- Three programs will be installed. The control program "Multitouch 5100207", the program "COV Increment Multitouch" and a third program (read-out program), which will be stored in a free program location during the runtime. This program will not be shown in the list! The exact installation location can only be queried via the DEBUG function of the control program:
 - To do so, open the overview window for the respective device and click on the Multitouch program in the "Jasic information" area.
 - Then open the log file via the "Debug Log" button.

Fig : Device-specific overview	GridVis-4.0.2(2013-05-28_14-34-52)	- • ×
rig Device opecific overview	File Edit View Tools Window Help	
WINDOW	🔛 🗊 🥙 🕲 🗐 😱 🧳 🤮	
	Duarulaw Window V	
	Download memory Configure Configure connection Connection test Reset values	
	UMG508 Hardware revision: 0005 Ethernet	
	UMGSUS Master - UMG604, Wagen unten Profibus BACNET	
	Last Value: EMAX	Serial number:
	Timeplan: No Timeplan	Firmware version: 2.034 2013-07-24 07:45:
		Connection String: TCP IP Adress:
		192.168.003.66
GridVis-4.0.2(2013-05-28_14-34-52)	Jasic informatio	n 🛞
File Edit View Tools Window Help	Program 1[Multitou	uch 5100207 Steuer Programm 🗑
	Program 2[COV In	krement Multitouch V4.0 Build 2]
E 🖬 🖃 : "7 🧲 : 🤍 🕲 🍋 🏹 (Program 3[Empty]	3
Overview Window 🤗 🖉 pro 1 🛛 MG508 Master] 🚿	Program 5[Empty]	3
	Program 6[Empty]	9
Graph Editor Debug Log Logs	Program 7[Empty]	3
	Transmit Transmit to Load from file Save as	PM CEST (GMT+02:00)
1 REM -TIMG5089		
² if stromp(dev_serien\$,"22") the	n¶	
³ start.prg name\$="/html/UMG508.j	as"¶	
4 typ\$ -= - "UMG508"¶		
5 endif¶		
6 a		
	• • • • • • • • • • • • • • • • • • •	
	Aug 9, 2013 12:15:17 PM CEST (GMT+02:00) 80 10 INS	

M GridVis-4.0.2(2013-05-28_14-34-52)		
File Edit View Tools Window Help		
🔚 🗐 (°) 🕼 🗐 두 🥠 🕹		
Overview Window 🛛 🖉 prg1 [UMG508 Master] 🕺		
Graph Editor Debug Logs Transmit Transmit to Load from file Saw	ve as	
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Some bytes lost rogrammplatz 3.00 Runningauf Geraet UMG508 Touch&Bacnet auf Programmplatz 3.00	E	
Runningauf Geraet UMG508 Touch8Bacnet auf Programmplatz 3.00 Runningauf Geraet UMG508 Touch8Bacnet auf Programmplatz 3.00	-	
Aug 9, 2013 12:18:09 PM CEST (GMT+02	2:00)	Fig.: "Debug log" windo

- In the example above the read-out program was automatically installed in program location 3. After the application installation the precise program sequence is as follows
 - 1. Control program and COV program are installed.
 - 2. The control program waits for 15 seconds until all HTML pages are transferred and then installs the read-out program in a free program location.
 - 3. After 40 seconds the COV increments for all value groups are automatically set.
- The COV increments are not persistently saved in the device, if these are set per BACnet on the device. The COV increments are preset in the JASIC program per value group and can be changed in the JASIC program. After the change, the program must be transferred to the device. The BACNet Sendlam_time is deactivated in default condition, but can be set to a number of seconds if desired. A _bacnet_sendlam_time = 5 would mean that a broadcast message would be sent every 5 seconds.

verv	verview Window × InconsistencyLog Window × J prg2 [UMG 604] ×	
Gra	Graph Editor Logs Debug Log 🔚 🐨 🔂	
Q, I	Q \ 7 \ 7 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2 \ 2	
1	1 rem N COV Inkrement Multitouch V4.0 Build 2	
2	2 REM Ver 3.9 Zeitverzoegerung fuer Start integriert (8sek) + Inkrement St	trom auf 1A gesetzt
3	3 REM Anzahl der Angeschlossenen UMG103	
4	<pre>4 global (FLOAT,_numdevice,1,20200,"",1)</pre>	
5	5 REM strukturierte Variablen fuerr ein COV anlegen	
6	6 record cov = (int ,error)(int,dev_nr)(int ,var_nr)(float,cov_incremen	nt)
7	7	
8	8 sleep(25000) REM Zeitverzögerung bis Programm Multitouch gestartet is	st
9	9	
10	10 REM Array Erzeugung	
11	11 DIM increment [20]	
12	12	
13	<pre>13 _bacnet_sendIam_time = 0 REM Sendeabstand BACNET auf 0 setzen</pre>	
14	14	
15	15 Loop:	
16	16 increment[0] = 2 REM Inkrement Sp	pannung (2V)
17	17 increment[1] = 1 REM Inkrement St	trom (1A)
18	18 increment[2] = 2 REM Inkrement Le	eistung (2kW)
19	19 increment[3] = 0.05 REM Inkrement Co	os-phi (0.05)
20	20 increment[4] = 1 REM Inkrement TH	HD (1%)
21	21 increment[5] = 0.1 REM Inkrement Fr	requenz (0.1Hz)
22	22 increment[6] = 1 REM Inkrement Dr	rehfeld (rechts/links)
23	23 increment[7] = 2 REM Inkrement Wi	irkarbeit / Blindarbeit (2kWh)
24	24 increment[8] = 1 REM Inkrement Te	emperatur (1 Grad)
25	25 increment[9] = 1 REM Inkrement Le	eistung SO (1kW)
26	26 increment[10] = 2 REM Inkrement Si	icherheitmessgroesen
27	27 increment[11] = 1 REM Inkrement Ko	ommunikationsfehler Slave
28	28	

Set up master device

- The transmission speed of all subscribers must be the same in order to establish communication between master and slave devices. The RS485 baud rate should be set to 38.4 kBit/s.
- Each subscriber receives a device address, wherein these addresses may not be assigned twice.
- The master device can receive a device address starting from 32.
- The interface mode must be parameterised to RS485 on the Modbus master (Gateway).
- All settings can be carried out directly on the device or via the GridVis software.

Parameter	Setting
Baud rate	RS 485 = 38400 Bit/s or higher
Device address	Freely selectable from 32 onward
Serial interface	RS 485 = Modbus Master (Gateway)

We recommend the following cable types for the bus line: Li2YCY(TP)2x2x0, 22 !

Important parameters UMG 604 / 605:

Parameter	Setting	Parameter recommendation	Setting
205	TCP mode	0	Fixed IP
203	RS485 mode	1	Master
202	RS485 baud rate	2	38.4 kbit/s
200	Device ID	32	32
300	IP address XXX	192	*
301	IP address XXX	168	*
302	IP address XXX	000	*
303	IP address XXX	021	*
304	IP mask XXX	255	*
305	IP mask XXX	255	*
306	IP mask XXX	255	*
307	IP address XXX	000	*

Important settings UMG 508 / 511:

Parameter	Setting
DHCP	Off
Address	192.168.000.021
Net mask	255.255.255.000
Gateway	
Protocol	Modbus gateway
Address	32
Baud rate	38400

Setting up slave devices

- The transmission speed of all subscribers must be the same in order to establish communication between master and slave devices. The RS485 baud rate should be set to 38.4 kBit/s.
- The slave device addresses must begin with "1" and then be assigned consecutively.
- All settings can be carried out directly on the device or via the GridVis software.

Parameter	Setting
Baud rate	RS 485 = 38400 Bit/s or higher
Device address	1,2,3,4
Serial interface	RS 485 = Modbus Slave

BACnet configuration

- Enter the IP address for the Power Analyser into the address bar of the web browser (Windows Internet Explorer, Firefox etc.). As soon as a connection has been established with the Power Analyser, the web server of the device appears.
- A Power Analyser with the BACnet option can be used as a gateway with the "Multitouch" application. This enables all standard values of the sub-devices to be displayed on the BACnet protocol.
- The station selection can be configured via the "Configuration / Monitoring config" menu.
 - The number of slaves connected is defined here and the specific names allocated for the station selection.
 - The configuration is transferred with the "Send configuration" button.

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Jai	nitza electronics :: UMG508 Master - U.	. +	The second s			
(192.168.3.66/conf_touch.html?_LAI	NGUAGE=en	ť	ן ד פ 🚼 ד Google און 🗧	۹ ا	n 🐁 🔻
X, Ins	stallation GridVis-Ser <u>Ы</u> janitza.de: T	echn.Infos 😹 janitza.de: News			E	Lesezeichen
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	lonite					
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						E
	Start	Main Configuration -	Display			
	Display					
	Monitoring Master/SLAVE	Description			Value	
	Emax	Device type	UMG508 -			
	Information	Function	Stationsauswahl (Mas	ter und Slave Geräte)	-	
	Records	number slave devices	1			
	Configuration	humber slave devices				
	Identity	Name Master / Description	Master	UMG508		
	Emax	Name Slave 1 /	01			
	Transformer	Description	Slave I	UMG SLAVET		
	Nominalvalues	Name Slave 2 /	Slave 2	LIMG SLAVE2		
	Events	Description	010702	OMGOLIVEZ		
	Recorded event	Name Slave 3 /	Slave 3	UMG SLAVE3		
	Transients	Description				
	Recorded transients	Name Slave 4 /	Slave 4	UMG SLAVE4		
	Time / Timezone	Description				
	Monitoring Config	Name Slave 5 /	Slave 5	UMG SLAVE5		-



- In the "Configuration / BACnet Config" menu.
 - The input of the virtual network addresses is necessary for the slave devices on the RS485 interface. Another address **must** be allocated for each line!
 - The 1st line (slave device) is allocated BACnet-MAC-Slave-Number 10.
 - The 2nd line (slave device) is allocated BACnet-MAC-Slave-Number 11 and so on.

Exam	pl	le:

1st line	2nd line
UMG 508 Master	UMG 508 Master
BACnet-MAC-Slave-Number = 10	BACnet-MAC-Slave-Number = 11

• The settings for "Bacnet ID / location" can be changed.



The standard measurement values can be shown via the BACnet protocol with a BACnet Explorer. The Data link option is the BACnet-IP.

The illustrations below were created with the Chipkin Explorer.

Preferences		×
General settings Refresh Property Types Debug Network BACnet MSTP Auto Update License	Network Enable Networks Spy mode To enable CAS BACnet Explorer to run in spy mode your computer BACnet IP To enable CAS BACnet Explorer to run in spy mode your computer BACnet Ethernet To enable CAS BACnet Explorer to run in spy mode your computer BACnet MSTP Select a network device ID IP Address Name 2 192.168.182 Dell Wireless 1390 WLAN Mini-Card (Microsoft's Packet Scheduler)' or 1 192.168.5.20 Broadcom MeXtreme Gigabit Ethernet Driver (Microsoft's Packet Scheduler) or 0 0.0.0.0 'Generic dialup adapter' on local host Image: Show this dialog on start up Image: Show this dialog on start up	
	OK Abbrechen Obernehr	nen

In the illustration shown here, master and slave devices are	CAS BACnet Explorer
shown in a tree structure in the explorer.	Menu Profiles
	Refresh Query Report Monitor Network Settings
	FYI #004: (Click for more info) Click the refresh button
	E- BACnet IP
	ia- Network 0
	 FYI #031: (Click for more info) Local area network
	E- Device 9000 - Master
	Last Updated: Wednesday, December 16, 2009 08:36:4
	Network 0
	- Network Type: BACnet IP
	- IP Address: 192.168.5.97
	object-name: Master
	object-type: device
	description: UMG604E
	location: Location-Master
	- vendoridanie vanica electronics ambri
	model-name: UMG604
	- firmware-revision: 1.1
	application-software-version: 3.03
	protocol-version: 1
CAS BACnet Explorer	protocol-revision: 2
Menu Profiles	may and ulength accorded 1475
	- utc-offset: 60
	- daylights-savings-status: False
	apdu-timeout: 3000
	number-of-APDU-retries: 3
	analog input [1]ULN0
	mailog-input [2]ULN1 mailog-input [2]ULN2
Refresh Query Report Monitor Network Settings Up	analog-input [5]ULN2 input [4] - ULN3
FYI #004: (Click for more info) Click the refresh button	
⊟- BACnet IP	analog-input [6]ULL1
E- Network 0	
 FYT #U31: (Lick for more info) Local area network Device 9000 - Montest 	analog-input [8]ILN0
E Device Soud - Master	maileg-input [9]ILN1
Device 9001 - Slave 1	
⊡ Device 9002 - Slave 2	H- analog-input [12] - PLN0
	⊕ analog input [13]PLN1
	analog-input [14]PLN2
	analog-input [15]PLN3
	analog-input [16]QLN0
	🕀 analog-input [17] - IQI N1

All measurement values can be shown in the ChipKin in a live monitor.



Visualisation of the measurement values on the homepage:

• The visualisation of the measurement values on the homepage is implemented via the "Monitoring Master/SLAVE" switch under the "Start" menu.

Firefox					x
Janitza electronics :: UMG508 Master - U	+				
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🔀 Installation GridVis-Ser 📐 janitza.de: Te	chn.Infos <u>Ы</u> janitza.de: News			E 6	esezeichen
Janitza	D [®] UMC	G 508			Ē
Start Display	Main Configuration -	Display			
Monitoring Master/SLAVE	Description			Value	
Emax	Device type	UMG508 -			
Information	Function	Stationsauswahl (Mas	ter und Slave Geräte)	•	
Records	number slave devices	1			
Configuration	Humber slave devices		T		
Identity	Name Master /	Master	UMG508	and the second se	
Emax	News Olars 4 (1		
Transformer	Description	Slave 1	UMG SLAVE1		
Nominalvalues	Nama Slava 2 /	Claure 2			
Events	Description	Slave 2	UNIG SLAVEZ		
Recorded event	Name Slave 3 /	Slave 3	LING SLAVE3		
Transients	Description	01070 0	OINIG OEAVES		
Recorded transients	Name Slave 4 /	Slave 4	UMG SLAVE4		
Time / Timezone	Description				
Monitoring Config	Name Slave 5 /	Slave 5	UMG SLAVE5		

Fig.: Web browser with device homepage

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	Master					
goto device homepage	Slave 1					
	Slave 2					
	Slave devices = 1 Modec 1	Janitza				
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Fig.: "Monitoring Master/ Slave" web page

Fig.: "Monitoring Master" web page

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	Mas UMG5	ter os					
	L1	225.2 V	0.2 ^	0.0 ×w	-0.0 ^{kVar}	PΣ	0.1 ×w
	L2	228.8 ×	0.1^	0.0 ×w	-0.0 ^{kVar}	QE	-0.0 KVar
measurement point	L3	222.7×	0.1^	0.0 KW	-0.0 ^{kVar}	Cos-phi	-0.97
	L4	18.8 ^v	L1	0.0 KVA	-1.00 ^{cos}	\mathbf{s}_{Σ}	0.1 ××A
	L1/2	389.9 ^v	L2	0.0 KVA	-0.90 ***	Ncalc	0.2 ^
	L2/3	390.1×	L3	0.0 KVA	-0.89	F	49.98 Hz
	L3/1	387.9 *				11.4	0.2 ^
	Wp		32 ****	Wq		Ø kvarh	1000 / 3660
Communication			Jai	nitza			ww.janitza.do

• The individual pages can also be called up directly:

Call-up	Page
<umg address="" ip="">/UMG604.html</umg>	Master measurement values
	(The html page name is always UMG604.html - even if the device in question is a UMG 605 / UMG 508 or UMG 511!
<umg address="" ip="">/add1.html</umg>	Slave 1 measurement values
<umg address="" ip="">/add2.html</umg>	Slave 2 measurement values

with: <UMG IP address> describes the IP address of the Power Analyser

Example, call-up of measurement values from slave 1:

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