



# Manual

# ALL3418v2

## IP Thermometer LAN / WLAN



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## Delivery

Please check the packaging and its content first:

- > Is there something on the packaging that was damaged by shipping?
- > Do you recognize if the case shows traces of use?

In case of damaged, do not let the device running. Please, if you have doubt do not hesitate to contact our Technical Service.

Packaging content:

- ALLNET® ALL3418v2 Web Sensor Meter
- Power supply
- Ethernet cable
- WLAN Antenna
- Instructions
- ALL3006 Temperature sensor

## Safety

Please note the following instructions:

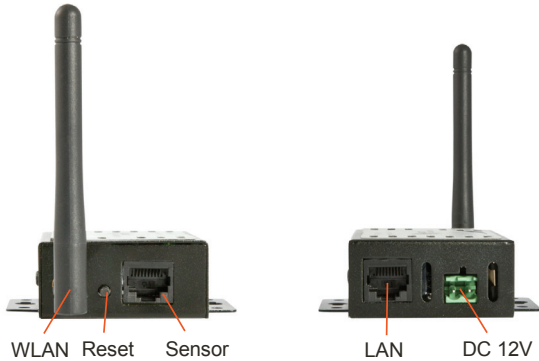
- Do not ever open the unit.
- Never perform an installation during a lightning storm.
- Make sure that the cables are well connected and sure footed.
- Do not expose the unit to the direct sunlight.
- Do not use this unit close any heat sources.
- Place the unit on surfaces that are heat sensitive.
- Protect the device from moisture, dust, liquids and vapor.
- Do not use the device in moist and potentially explosive environment.
- Do not clean with solvent-based cleaning agents, but only a soft, dry anti-static cloth.
- Repairs may only be performed by trained, authorized personnel.
- In case of inappropriate usage, ALLNET® is out of responsibility.

## Installation and mounting

General:

The ALL3418v2 Web Sensor Meter must only be used in dry environment. Make sure there is an adequate ventilation. Avoid exposure to moisture, dust, sun or other heat radiation. The installation shall be made so that the cables (network cable, power supply cable and other consumer cable) are not in tension. Use only DC 12V power supply.

## Connectors overview



## Description

The ALLNET ALL3418v2 IP Thermometer is a flexible and inexpensive solution for temperature monitoring over the network. Thanks to its extremely compact design, it is possible to use it even in difficult or not so accessible places. The rugged metal housing has tabs for mounting on walls and ceilings and protects against mechanical damage.

The ALL3418v2 IP Thermometer can connect itself via cable or wireless LAN to a computer network and is accessible via an IP address. The measured values can be displayed using a web browser directly from the device. No additional software is required for operation.

The temperature is measured via the included remote temperature sensor ALL3006. Another internal temperature sensor on the board of the device shows the system temperature. With the optional ALL3018 temperature & humidity sensor can detect not only the temperature but also humidity. The measurement intervals can be set to 1 second. The last 512 measurements are available directly in the unit and can be represented as a graph/display chart.

The heart of the ALL3418v2 Web Sensor Meter is an embedded Linux computer based on a MIPS CPU module with 400MHz core, 64MB RAM and 32MB flash as disk.

### Intelligent features and programming by switching matrix

Certain actions can be programmed in dependence of the values determined via the software-switching matrix. For example, if the measurement is above or below the set limits, the readings can be sent by email. This may once, several times, and / or in certain time intervals, so long as the matrix condition exists.

Another possibility is the targeted external switching, IP enabled, as well as the other network solutions of ALL307x series.

### Flexible installation options

The external sensors can be plugged directly on ALL3418v2 or can be connected remotely via a control line. For remote connection of the sensors to the CPU, all ALLNET Home Automation products use a simple network cable (RJ45 connector, Cat. 5). For this purpose, can also be used an existing cable network, such as one's own network or telephone cables. The maximum cable length between the CPU and module can be up to 100 meters. The module can be supplied in this case by the central unit with right voltage. A separate power source for each module is not necessary.

### Cross-site temperature measurement without borders

Together with ALLNET ALL4500 and ALL5000, several of ALL3418v2 can operate in conjunction, even if geographically distributed. Here each individual ALL3418v2 is queried using the individual IP address and centrally stored and displayed in ALL4500/5000.

## Connecting the device

First connect the ALL3418v2 with the included power supply and your Ethernet LAN cable, then the power supply to the 230V source.

The Linux system needs about 90 seconds to boot, in this time is any activity executed.

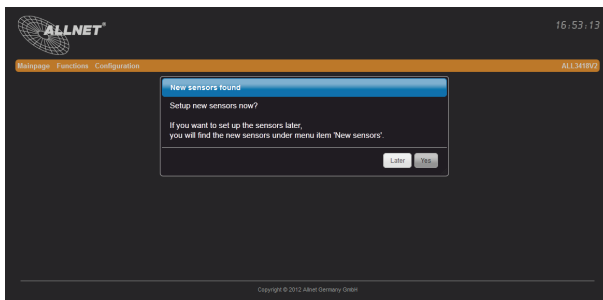
After the boot process finish, bus LED begins to blink. Thereafter, the interface of the ALL3418v2 will be achieved.

## Customizing the ALL3418v2 to its network

### Connection with LAN cable

1. Connect your ALL3418v2 via the included LAN cable to your Ethernet switch. Make sure that the connector is well inserted in its slot.
2. Establish connection between ALL3418v2 and the PC / MAC: the ALL3418v2 communicates using the TCP/IP- protocol with the connected components. Thus the ALL3418v2 is recognized by your PC / MAC, if the PC / MAC and the ALL3418v2 are in the same network segment. By default, the ALL3418v2 Web Sensor Meter has:  
IP-Address: **192.168.0.100**  
Subnet Mask: **255.255.255.0**  
No username or password required
3. Please, set temporary the PC or MAC address to a free one in between 192.168.0.1 - 192.168.0.254 (not 192.168.0.100 – this is the default address of the ALL3418v2 Web Sensor Meter).
4. In the web browser (Internet Explorer, Firefox...) page, please enter the address 192.168.0.100 to access the ALL3418v2 Web Sensor Meter homepage.
5. Please, answer with „later“ to the question after set up the new sensors.

Note: do not connect any sensor at the first installation.



- a) **HOSTNAME:** Enter a name for your ALL3418v2, this will be reported/used in your network. Valid only the following characters: a-z, A-Z, 1-9 and the hyphen (not to be used at the beginning or at the end). It can not contain special characters and space. Maximum 15 characters can be used.
- b) **IP ADDRESS SETTING:** When you select "DHCP", the ALL3418v2 Web Sensor Meter uses the DHCP server to assign itself an IP. Points c – g) to omit. In "static" (default), the address is assigned manually.
- c) **IP ADDRESS:** Address of the ALL3418v2 in the network (please, make sure you do not assign an IP address twice – Ask your network administrator).
- d) **NETMASK:** Default setting 255.255.255.0
- e) **DEFAULT GATEWAY:** Please fill in the default gateway, usually the IP address of your router.
- f) **PRIMARY DNS:** Here, you enter the address of your DNS server. In home networks usually the IP address of your router.
- g) **SECONDARY DNS:** Default setting 8.8.8.8. Please modify it only when you are sure that exists a secondary DNS in your network.

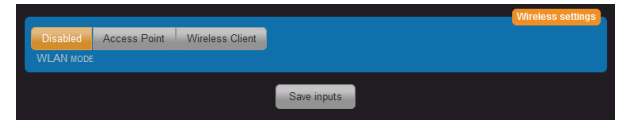
After changing parameters press "Save settings". The ALL3418v2 automatically restarts. After about 90 seconds, the ALL3418v2 with the new parameters will be accessible.

## WLAN Setup

### Configure the WLAN parameters

In your Web browser, enter the web address of the ALL3418v2 Web Sensor Meter. Settings under "Configuration" > "WLAN settings".

### WLAN Mode Selection



Select the operating mode for WLAN. There are 3 options available.

- **Power off.** WLAN is disabled. (Default setting)
- **Access Point.** The ALL3418v2 itself works as a wireless access point. All devices that are in your local area network and the ALL3418v2 are thus accessible via WLAN.
- **Wireless client.** The ALL3418v2 can be connected to an existing WLAN.

## Access Point Settings

When operating as an access point, you can press the button "Show Access Points" to use the information shown and clearly differentiate from the existing WLANs.

Now set your login details for your home wireless network. If you use this mode and you are connected to a LAN, the ALL3418v2 acts as a wireless access point. This mode can also be used alone to control the ALL3418v2 without LAN connection. E.G. from your phone via Wi-Fi. For this mode, has sense to activate the DHCP server. The description is given in a later chapter.

SSID	Security	Signal %	Mode	Channel
3p_Sender	WPA2PSK-AES	60	11b/g/n	11
wearetheborg	WPA2PSK-AES	55	11b/g/n	6
rdwrt	WPA2PSK-AES	29	11b/g/n	4
OpenWrt	OPEN-NONE	24	11b/g/n	11
OxMox@Office	WPAPSK-AES	10	11b/g/n	6
FRITZ!Box WLAN 3270	WPAPSK-AES	0	11b/g/n	1
FRITZ!Box WLAN 3270	WPAPSK-AES	0	11b/g/n	1
ALLNET-Guest	WPA2PSK-AES	0	11b/g/n	1
ALLNET-INT1	WPA2PSK-AES	0	11b/g/n	1

- SSID:** Please enter the name of your network
- Channel:** Select a free channel from the drop-down menu. The busy channels you can see from the display of the function "Show Access Points"

When operating as a **wireless client**, you can by clicking the "Search Access Point", search in the area for available wireless access points and display them. Simply press the button "Select" in the appropriate line, to connect with wireless network. All data except of the encryption key will be taken.

Found Accesspoints				
SSID	Security	Signal %	Mode	
wearetheborg	WPA2PSK-AES	60	11b/g/n	Choose
3p_Sender	WPA2PSK-AES	60	11b/g/n	Choose
OpenWrt	OPEN-NONE	24	11b/g/n	Choose
rdwrt	WPA2PSK-AES	24	11b/g/n	Choose
OxMox@Office	WPA2PSK-AES	15	11b/g/n	Choose
ALLNET-Guest	WPA2PSK-AES	0	11b/g/n	Choose
FRITZ!Box WLAN 3270	WPA2PSK-AES	0	11b/g/n	Choose
FRITZ!Box WLAN 3270	WPA2PSK-AES	0	11b/g/n	Choose
ALLNET-INT1	WPA2PSK-AES	0	11b/g/n	Choose

Close

The automatic transfer of parameters SSID, CHANNEL, WLAN AUTH MODE is done by pressing the "Select" button. The "encryption key" must always be entered manually and must be identical to the one of the selected WLAN.

Alternatively, you can also manually set your access data of your home wireless network.

- a) **SSID:** Entry must be the same with your WLAN.
- b) **WLAN AUTH MODE:** Select the same of your wireless encryption method. (OPEN NONE, shared WEB, WPA-PSK-TKIP, WPA-PSK AES, TKIP WPA2PSK, WPA2PSK-AES).
- c) **ENCRYPTION:** Entry must be the same with your WLAN. With "SHOW PASSWORD" you can visually check, that any typing error occurred.

After entering the parameters press "Save settings". The ALL3418v2 automatically restarts. Disconnect now the ALL3418v2 from your LAN connection. Simultaneous connection with WLAN and LAN may cause problems in your network.

After about 90sec should the ALL3418v2, with the new parameters, be accessible via WLAN.

## DHCP Server

Settings under "Configuration" -> "DHCP server".

The ALL3418v2 can act as a DHCP server. Enable this feature if the ALL3418v2 run as a standalone access point. Note: if this feature is enabled and the ALL3418v2 connected erroneously with your LAN, it interferes. Select for standalone operation an IP address that is different from your existing LAN and WLAN in the setting used. E.g. an address in the range 192.168.100.xxx

See also: [http://en.wikipedia.org/wiki/Private\\_network](http://en.wikipedia.org/wiki/Private_network)

DHCP Server

Disabled
Enabled

DHCP SERVER OPERATION MODE

DHCP Server settings

192.168.0.101

IP ADDRESS RANGE STARTS FROM

192.168.0.149

IP ADDRESS RANGE ENDS

255.255.255.0

NETMASK

192.168.0.1

GATEWAY

192.168.0.1

DNS 1

194.25.2.129

DNS 2

212.18.0.5

DNS 3

Save inputs

- a) **DHCP Server Operation Mode:** Disabled / Enabled (Default = Disabled).
- b) **IP Address Range starts from:** The automatic assignment of IP addresses starts with xxx.xxx.xxx.xxx default = 192.168.0.110.
- c) **IP Address Range ends with:** The automatic assignment of IP addresses finishes with xxx.xxx.xxx.xxx default = 192.168.0.149.
- d) **Netmask:** Default = 255.255.255.0. Fit to 192.168.xxx.xxx.
- e) **Gateway:** in stand-alone mode it does not matter. Otherwise your router address.
- f) **DNS 1:** Your DNS server address. With home networks the router address. For stand-alone operations it does not matter.
- g) **DNS 2:** In stand-alone mode it does not matter.
- h) **DNS 3:** In stand-alone mode it does not matter.

## ALL3418v2 Configuration

### Device Settings

ALL3418V2  
DEVICE NAME

3  
NUMBER OF COLUMNS FOR THE REPRESENTATION OF THE SENSORS / ACTUATORS

954  
STANDARD LOCAL AIR PRESSURE

120  
RECORDING INTERVAL FOR CHART DISPLAY IN SECONDS

#ffffff COLOR OF STATE 'ON' #ffffff COLOR OF STATE 'OFF'

Disabled Enabled

EXPERT VIEW

Sensor panel

SET DEFAULT HOMEPAGE

Save inputs

- Device Name:** This name will appear on all websites at the top right.
- Number of Columns:** The website "sensor board" is divided into the specified number.
- Standard Local Air Pressure:** An indication of the local air pressure is necessary to correct the readings of the pressure sensors. The sensors measure the absolute pressure, the display is usually in relative values. The standard local air pressure is influenced by the current altitude above mean sea level (sea level) and local differences. For the local air pressure info, please contact the local weather bureau. Learn more about: [http://en.wikipedia.org/wiki/Atmospheric\\_pressure](http://en.wikipedia.org/wiki/Atmospheric_pressure).
- Recording interval for chart display:** The sensor values are taken in regular interval and displayed in graphics
- Expert view:** sensors additional options and settings appear.
- Set default homepage:** Display the "\_control panel" with status of the actuators or the "\_sensor panel" showing the selected sensors.

### Language Options

Settings under "Configuration"> "Change Language"  
You can choose between English, German or Italian languages.

Choose your language

English

CHOOSE YOUR LANGUAGE

Save inputs

### SMTP Options

Settings under "Configuration"> "SMTP settings".  
There is the possibility to send e-mails by using the ALL3418v2 to specified email addresses, related to different events.

SMTP setting

smtp.server.com  
SMTP SERVER

Username  
USERNAME FOR LOGIN

Password  
PASSWORD FOR LOGIN

your.mailaddress@server.com  
FROM ADDRESS

Save inputs

1. **Operation mode with / without SSL:** Default = without
2. **http Port Number :** http = 80 / https = 443
3. **Username:**
4. **Password:**
5. **Admin Username:**
6. **Admin Password:**

Note: It's recommended to give always an entry for Admin Username and Admin Password, in addition of Username and password. The usage of the same set up for username and password does not make any sense, cause otherwise through the open access, all website will result unprotected.

### FTP Server settings

The ALL3418v2 offers the possibility to transfer measured values collected directly from the Linux system.

1. FTP Server Activation: Default = Enabled
2. FTP Port number: Default = 21
3. Password for ftp users: At login a small label „ftp“ is written

### SSH Server setting

Advanced user can directly access the console of the Linux operating system.

1. SSH Server Activation: Default = Enabled
  2. SSH Port number = 22
  3. Password for root user: At login a small label „root“ is written
- !!! This password must be absolutely modify!!!**



## Date & Time

Settings under "Configuration"> "Date & Time"

The ALL3418v2 synchronizes its system time with an NTP server. The time query to the NTP happens during the boot process and all 24H. Monitoring is made by the port 123. This port must be let open on the firewall. It can also be used a network-internal time server. It can be that your DSL router acts as NTP server.

For the correct time, the ALL3418v2 must have an Internet connection!

Timezone: GMT+1 (Enabled) | ACTIVATE OR DEACTIVATE AUTOMATIC DAYLIGHT SAVING TIME

Timeserver: Enabled | Disabled | ENABLED OR DISABLE TIMESERVER

NTP SERVER 1: ptbtime1.ptb.de

NTP SERVER 2: ptbtime2.ptb.de

NTP SERVER 3: ntp0.fou.de

NTP SERVERPOOL: pool.ntp.org

Time Info (can only be changed if Timeserver is disabled)

SYSTEM TIME: 10:16:42

SYSTEM DATE: 09.11.2012

Save inputs

The following settings and features include:

- Set the maximum log file size
- Logs view
- Save the current configuration
- Restore a saved configuration
- Factory Reset
- Restarting

Version: SOFTWARE 3.00.00, HARDWARE 0.02, MAC 00:0F:C9:0B:50:6B

System Info: TOTAL 60816 kB, USED 28124 kB, FREE 32692 kB, DEVICE MEMORY 15.06 MB, SYSTEM INFO 09.11.2012 - 10:40:01, UPTIME 22:30 Hour

Services: all3075\_demon running, download\_demon running, history\_demon running, i2c\_demon running, matrix\_demon running, sensor\_shm\_demon running, timer\_demon running, update\_demon running

Save / Restore Configuration: Save Config File, Load Config File, Browse, Upload

Restart Device / Factory Reset: Restart, Factory Reset

## Device Status

Options under „Configuration“ > „Device Status“

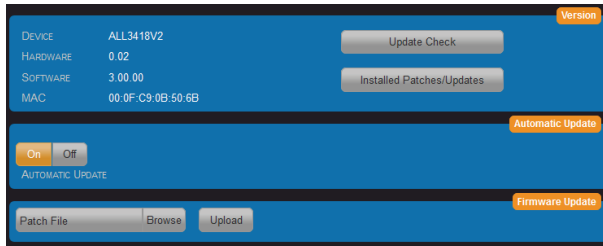
The website shows an overview about the system:

- Hardware Version
- Software Version
- MAC Address
- Memory usage
- Operating time
- External temperature and humidity occurs only when the sensors are connected.
- Services overview

## Update Settings

Option under „Configuration“ > „Update Settings“

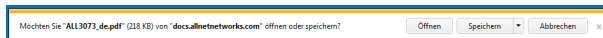
It is possible to manually check for updates and install them immediately. By using the factory settings, the ALL3418v2 will search for update at each boot and once every 24H. There is even the option to download a firmware file directly.



1. Update check;
2. Installed Patches / Updates;
3. Automatic update;
4. Patch file;

## Download user manual

Option under „Configuration“ > „Download user manual“



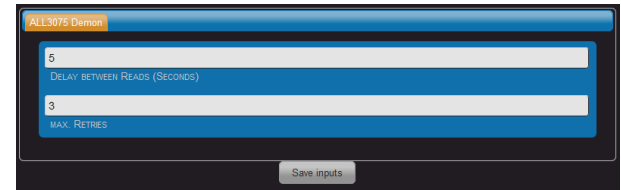
Independently on the previous language in the interface, the manual download will start in the appropriate language.

## Functions

### ALL3075 Services

Option under „Functions“ > „Services Settings“

The ALL3418v2 can be expanded with ALL3073, ALL3075, ALL3075V2 and ALL3075WLAN actuators. These devices are actuators and can be controlled from the user. ALL3075V2 & ALL3075WLAN can also display the current power consumption. Communication is carried out via LAN or WLAN.



1. Delay between accesses (seconds): Default = 5 Sec. Using this option, the current state of the ALL3075 will be queried. The transmission rate to the actuator is not affected by this setting.
2. Max connection attempts: Default = 3. Displaying an error message after 3 failed connection attempts. It will continue to try to reach the actuator each 5Sec.

### ALL3075 Actuators

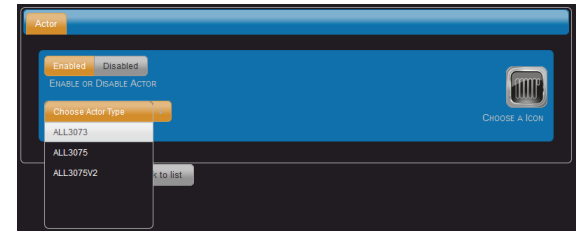
Option under „Function“ > “External Actors“

After clicking the plus sign, the mask to set up the ALL3075 / ALL3073WLAN & ALL3075v2 actuator automatically will open.

„ALL3418v2.pdf“



### Actuator selection



1. Enable or Disable: here actuators can be en - disabled.
2. Device type: select them using the scroll menu
3. Select Icon: the icons will be displayed by pressing the button. Select by clicking.
4. Cancel an actuator: This option only appears when already actuators are created.

#### Actuator Parameters

1. Actuator IP address: Each actuator has its own IP-Address. Please, insert it here.
2. Actuator name: Choose a suitable name for the task. This name is displayed in the main page.
3. Actuator description: The description is the detailed information and is not displayed on the main page.

#### Actuator Security Settings

1. Username: Only if you have the same username on the actuator itself, this is to enter here.
2. Password: If you have set on the actuator itself a username, the password is to enter here.

#### Timing

Option under „Function“ > „Timing“

Time-dependent timers can be created. The resolution is 1 second. A maximum of 128 timers can be created.

After clicking on the plus sign in the mask, will automatic be open an interface to define a new timer.

1. Timer: Enable / Disable.
2. Timer name: Choose a suitable name for the timer. This name appears in the summary page.
3. Timer description: the description is the detailed information and will not be displayed on the overview page.
4. Start time: Use the three sliders to select the desired time

## Action

(No actor selected) On Off Toggle

ACTORS ACTOR ACTION

Name of the script, including the path. (eg. /data/example.sh)

SCRIPT TO EXECUTE

Enabled Disabled

ONLY RUN ONCE

Time in seconds to wait after an alarm, at least before it is triggered again

HOLD OFF (SECONDS)

Back to list Save inputs

- Actuators: You can select any already created actuators
- Actuators action: On / Off switching
- Script to execute: Optional, on the ALL3418v2, a Linux shell script must be present, to make this call starting.
- Only run once: with Disabled selected, the actions will be executed each second.
- Hold Off (Seconds): Default = 1 Sec

## eMail Notification

Enabled Disabled

EMAIL DELIVERY

recipient@server.com

EMAIL RECIPIENT

Enter the subject of your eMail

EMAIL SUBJECT

Enter a text to be sent in the mail body

EMAIL BODY TEXT

No value Simple Value All Values

TRANSMIT SENSOR DATA IN EMAIL TEXT

Back to list Save inputs

- Email delivery: Enabled / Disabled
- Email recipient: recipient@server.com
- Email subject:
- Email body text:
- Transmit sensor data in email text: select the data to send via email.

## Status Notification

System Status

CHOOSE STATUS

00:00

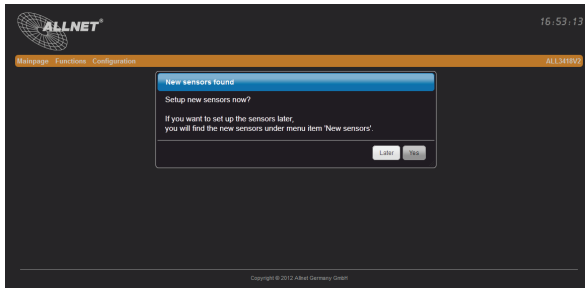
SEND TIME

Back to list Save inputs

- Status selection: Boot eMail or System status to send.
- Delivery time: when system status is selected, a daily time can be set up.

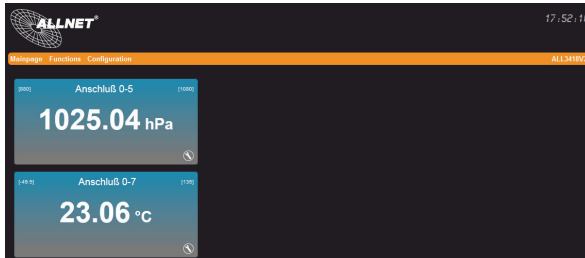
## Sensors set

It is recommended that the establishment of the sensors will be carried out only after the basic installation of the ALL3418v2. Ideally, only one new sensor by time can be connected with the ALL3418v2, so doing allocation and name assignment will be easier to do. Different sensors can be connected. Example ALL3006, ALL3018, ALL4529.

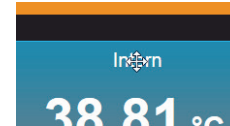


As a rule, the sensor can be integrated automatically. The sensor cannot be assigned automatically, manual mapping is necessary.

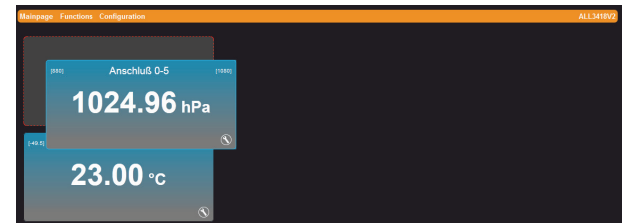
These sensors included in this list were automatically detected. For some sensors, there are various options that can be configured through its own selection window.



After returning to the sensor panel, the new identified sensors are listed.



By clicking with the mouse in the field of labeling the sensor windows can be moved.



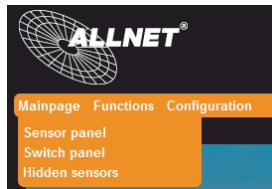
## Sensor configuration



Click the tool icon to perform the configuration of the new sensor.

1. Sensor presentation: Default = Enabled. If Disabled is selected, the sensor no longer appears on sensor panel. A logical evaluation of the signal is still possible.
2. Sensor name: This name appears on the sensor board. The length of the text field is limited to 20 characters.
3. Sensor description: the description of the sensor.

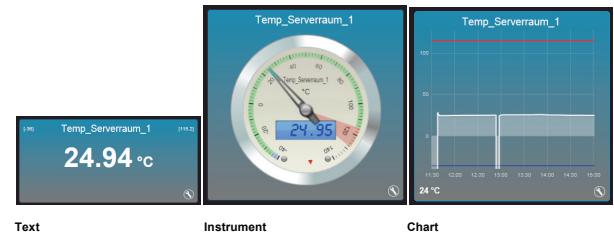
Note: Hidden sensors can be reactivated at "Hidden sensors" on the mainpage. This option is only visible when there are deactivated sensors.



## Sensor Presentation

Display in text form.

1. Sensor presentation: three modes available (see on the bottom)
2. Minimal und Maximal values: The display shows the min and max markers.
3. Color change at over/underflow: The color of the background of the instrument.



Text

Instrument

Chart

## Instrument

Display in analog instrument form.

1. Select the illustration of the sensor: (Instrument)
2. Change color over / underflow: The background color of the instrument changes for exceeding or falling below a set value. Setpoint is defined under the limit.
3. Select the instrument type for the display: 5 types can be chosen.
4. LCD display for value: In addition to the vector representation of values, they are shown as a digital number.
5. Sections marks:
6. Threshold marking:
7. Range markings:

## Chart

Display in chart form.

## Limit

The start and end values of the display can be set up, as well as the values indicating the lower and upper threshold.

## System / Bus

This display is only activated in Expert View in the menu "Device Settings"

Sensor Presentation Limit **System / Bus** Min / Max Information

BUS SPEED 50

CHIP ADDRESS 0

Priority Low Normal

Cancel Save inputs

- a) Bus speed: The sensor operates with a longer cable, it may be necessary to reset the speed down.
- b) Chip Address: related to different sensors, the address can be set manually. If a manual change is done, then this parameter needs to be adjusted.
- c) Priority: All sensors with „Normal“ priority will be queried every second. For those sensors with „low“ priority, the query will be done after the sensors with „Normal“ one. This means that if there are 10 sensors with normal priority, the low priority sensor will be read every 10 seconds.

## Min / Max

It is intended as the minimum and the maximum value of a day. The values over the entire period are shown too.

Sensor Presentation Limit System / Bus **Min / Max** Information

Daily measurements

Minimal value: 1024.91 hPa measured on 15.11.2012 at 13:01:52  
Maximum value: 1028.81 hPa measured on 14.11.2012 at 23:23:16

Reset

Absolute measurements

Minimal value: 996.36 hPa measured on 01.11.2012 at 04:59:02  
Maximum value: 1035.57 hPa measured on 13.11.2012 at 08:36:51

Reset

Cancel Save inputs

## Information

It will be displayed the data of the sensors.

Sensor Presentation Limit System / Bus Min / Max **Information**

Chip description: Air Pressure Sensor  
Chip function: Air Pressure  
Device PartNo: ALL4429 ALL4529  
Measurement Unit: hPa  
Sensor measurement range: [800] - [1200]  
Internal sensor id: 105  
Chip Id: 42  
Chip Number: 5  
Chip address min: 0  
Chip address max: 0  
Device port: 0  
Multiplexer port: 5

Cancel Save inputs



## Reset

It may happen that your ALL3418v2 by faulty user settings is not accessible, or that a password has been set and forgot, etc. In this case you can use the following reset procedure, to reset all settings to factory default (reset the device back to factory default settings means that your values will be lost): remove the power supply from your device. Using a non-conducting pointed object (eg. a toothpick) press the RESET button through the small hole next to the USB port and keep it pressed (PUSH and STAY on the button!). Give again power to your ALL3418v2 and wait about 3 minutes until the BUS LED starts to flash. ONLY NOW the reset button can be released. After that is the reset process completed and all the settings are reset to its factory state.

## Cleaning

Before cleaning, unplug the unit from the home socket. Use a soft cloth (better if microfiber cloth). Never use detergent, alcohol or other solvents. Please note that within the housing there is modern electronic components. Therefore, never use so much water or detergent, that by the side vents (holes) or through the small gaps between the metal frame or through the recesses of the connections can penetrate into the interior of the ALL3418v2. If it should happen, pack the device to send it back and please contact our support.

## Specifications

- Operating voltage: 12V DC max. 1A
- Network: 10BaseT 100BaseTX
- Network connector: RJ45
- Ambient operating temperature: 5 - 40°C
- Humidity: 10% - 85% (not-condensing)
- Storage Temperature: -20 - 60°C
- Storage humidity: 5% - 90% (not-condensing)
- Housing: Aluminium housing
- Protocols: HTTP/HTTPS TCP/IP
- Wireless LAN: 2,4 GHz Wireless N, up to 150 Mbps
- Supported standards: IEEE 802.3 IEEE 802.3u IEEE 802.11b/g/n
- Operating systems: all network compatible operating systems
- Dimension (L\*W\*H): 80 x 53 (75) x 24 mm (Length x Width x Height)
- weight: 100g (without cable and accessories)
- Manufacturer: ALLNET® GmbH

## Parameters

Without parameters an Help will be displayed.

mode\*: Mode can be „actor“, „sensor“ or „info“  
type\*: type can be „list“ or „switch“  
id\*\*\*\*: Actuators or Sensors ID (optional)  
action\*\*\*\*\*: Action can be „0“ or „1“ (optional)

## Display actuators

### Entry:

<http://192.168.0.100/xml/?mode=info>

### Output:

```
<system>
  <hardware>
    <model>ALL3418V2</model>
    <revision>0.02</revision>
    <mac>00:0F:C9:08:50:6B</mac>
  </hardware>
  <firmware>3.00.00</firmware>
  <device>
    <name>ALL3418v2</name>
    <date>Mon, 22 Oct 2012 14:50:12 +0200</date>
    <uptime> 14:50:12 up 33 min</uptime>
  </device>
  <memory>
    <total>60844 kB</total>
    <free>35228 kB</free>
    <used>25616 kB</used>
    <system>15.2 MB</system>
  </memory>
  </device>
</system>
```

Hardware Device
Hardware Revision
MAC Address of the device
Software Version
Device name (given from the user)
Data&Time from the device (RFC)
Running time (since the last time)
Total memory
Free memory
User memory
Memory system space

## Switch actuator

Entry:

<http://192.168.0.100/xml/?mode=actor&type=list>

Output:

```
<actors>
  <actor>
    <id>2</id>
    <name>Device LED</name>
    <state>0</state>
  </actor>
  <actor>
    <id>116</id>
    <name>Connection 0-4-0</name>
    <state>0</state>
  </actor>
  <actor>
    <id>117</id>
    <name> Connection 0-4-1</name>
    <state>0</state>
  </actor>
  .
  .
  .
</actors>
```

Actuator ID  
Actuator Name (given from the user)  
State of the actuator [0=Off, 1=On]

### Show only one actuator

Entry:

<http://192.168.0.100/xml/?mode=actor&type=list&id=116>

Output:

```
<actor>
  <id>116</id>
  <name>Connection 0-4-0</name>
  <state>0</state>
</actor>
```

Entry:

<http://192.168.0.100/xml/?mode=actor&type=switch&id=116&action=1>

Output: (Actuator will be turned ON from the OFF state)

```
<actor>
  <id>116</id>
  <name>Anschluß 0-4-0</name>
  <state>0</state>
  <action>1</action>
  <result>1</result>
  <result_text>switch on</result_text>
</actor>
```

State of he actuator before the command  
Executed Action  
Result of the action [0=OFF,1=ON,2=Error,3=no action executable]  
Result as text

Entry:

<http://192.168.0.100/xml/?mode=actor&type=switch&id=116&action=1>

Output: (Actuator will be turned ON, from the state ON)

```
<actor>
  <id>116</id>
  <name>Connection 0-4-0</name>
  <state>1</state>
  <action>1</action>
  <result>3</result>
  <result_text>nothing todo</result_text>
</actor>
```

Entry:

<http://192.168.0.100/xml/?mode=actor&type=switch&id=116&action=0>

Output: (Actuator will be turned OFF from the state ON)

```
<actor>
  <id>116</id>
  <name>Connection 0-4-0</name>
  <state>1</state>
  <action>0</action>
  <result>0</result>
  <result_text>switch off</result_text>
</actor>
```

## All Sensors List

Entry:

<http://192.168.0.100/xml/?mode=sensor&type=list>

Output:

```

<sensors>
  <sensor>
    <id>101</id>
    <name>Connection 0-0</name>
    <current>23.31</current>
    <unit>°C</unit>
    <minmax>
      <today>
        <min>
          <value>23.06</value>
          <date>22.10.2012 14:30:34</date>
          <timestamp>1350909034</timestamp>
        </min>
        <max>
          <value>23.37</value>
          <date>22.10.2012 15:22:54</date>
          <timestamp>1350912174</timestamp>
        </max>
      </today>
      <absolute>
        <min>
          <value>23.06</value>
          <date>22.10.2012 14:30:34</date>
          <timestamp>1350909034</timestamp>
        </min>
        <max>
          <value>23.37</value>
          <date>22.10.2012 15:22:54</date>
          <timestamp>1350912174</timestamp>
        </max>
      </absolute>
    </minmax>
  </sensor>
  <sensor>
    <id>102</id>
    <name>Anschluß 0-3</name>
    <current>1026.13</current>
    <unit>hPa</unit>
    <minmax>
      <today>
        <min>
          <value>1025.52</value>
          <date>22.10.2012 14:25:14</date>
          <timestamp>1350908714</timestamp>
        </min>
        <max>
          <value>1026.25</value>
          <date>22.10.2012 15:54:15</date>
          <timestamp>1350914055</timestamp>
        </max>
      </today>
      <absolute>
        <min>
          <value>1025.52</value>
          <date>22.10.2012 14:25:14</date>
          <timestamp>1350908714</timestamp>
        </min>
        <max>
          <value>1026.25</value>
          <date>22.10.2012 15:54:15</date>
          <timestamp>1350914055</timestamp>
        </max>
      </absolute>
    </minmax>
  </sensor>

```

Sensor ID  
 Sensor Name (given from the user)  
 Current value of the sensor  
 Unit  
 Minimal/Maximal values  
 Daily value  
 Lowest value of the current day  
 Date&Time of the measure  
 Timestamp of the measure  
 Highest value of the current day  
 Date&Time of the measure  
 Timestamp of the measure  
 Absolute value (since operative mode)  
 Lowest measured value  
 Date&Time of the measure  
 Timestamp of the measure  
 Highest measured value  
 Date&Time of the measure  
 Timestamp of the measure

```

    </min>
    <max>
      <value>1026.25</value>
      <date>22.10.2012 15:54:15</date>
      <timestamp>1350914055</timestamp>
    </max>
  </absolute>
</minmax>
</sensor>
.
.
.
</sensors>

```

## Display only one sensor

Entry:

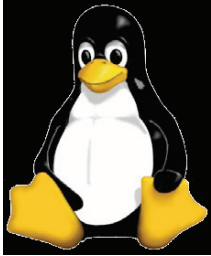
<http://192.168.0.100/xml/?mode=sensor&type=list&id=102>

Output:

```

<sensor>
  <id>102</id>
  <name>Connection 0-3</name>
  <current>1026.13</current>
  <unit>hPa</unit>
  <minmax>
    <today>
      <min>
        <value>1025.52</value>
        <date>22.10.2012 14:25:14</date>
        <timestamp>1350908714</timestamp>
      </min>
      <max>
        <value>1026.25</value>
        <date>22.10.2012 15:54:15</date>
        <timestamp>1350914055</timestamp>
      </max>
    </today>
    <absolute>
      <min>
        <value>1025.52</value>
        <date>22.10.2012 14:25:14</date>
        <timestamp>1350908714</timestamp>
      </min>
      <max>
        <value>1026.25</value>
        <date>22.10.2012 15:54:15</date>
        <timestamp>1350914055</timestamp>
      </max>
    </absolute>
  </minmax>
</sensor>

```



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24.10.2012

**EC – Declaration of conformity**

For the following product

**ALL3418v2 IP Thermometer LAN/WLAN**



This equipment conforms with the requirements of the Council Directive R&TTE 1999/519/EC on the approximation of the laws of the member states relating to Radio and Telecommunication Terminal Equipment and the mutual recognition of their conformity.

The safety advice in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The ALL3418v2 IP Thermometer conforms to the European Directives EMV 2004/108/EG

This equipment meets the following conformance standards:

EN 50385: 2002	EN 301 328 V1.7.1 (2006-10)
EN 301 489-1 V1.8.1 (2008-04)	EN 301 489-17 V2.1.1 (2009-05)
EN 55022: 2006+A1: 2007, Class B (Conducted Emission Test)	
EN 61000-3-2: 2006+A1: 2009+A2: 2009, Class A	
EN 61000-3-3: 2008	EN 61000-4-2: 2009
EN 61000-4-3: 2006+A1: 2008	EN 61000-4-4: 2004
EN 61000-4-5: 2006	EN 61000-4-6: 2009
EN 61000-4-11: 2004	

This equipment is intended to be operated in all countries.

This declaration is made by  
ALLNET Computersysteme GmbH  
Maistraße 2  
82110 Germering Germany



Wolfgang Marcus Bauer  
CEO

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