Manual ALL3505
Table of Contents
>>>>> TBD <<<<<<

scope of supply

Please check the packaging and contents for damage:

Is there any indication on the packaging that something has been damaged during transport? Are there signs of wear on the housing?

Under no circumstances must you put the device into operation if it is damaged. In case of doubt, please contact our technical customer service.

Packaging contents:

- ALLNET® ALL3505 IP Home Automation Central Unit
- 1x network cable
- 1x 230V connection cable
- 1x ALL3006 Temperature sensor
- user's manual

safety notices

It is imperative that you observe the following notes:

- Never open the device.
- Never perform an installation during a thunderstorm.
- Make sure that cables are laid in a tripping and non-slip manner.
- Do not expose the device to direct sunlight.
- Never place the device near heat sources.
- Never place the unit on surfaces that are sensitive to heat.
- Protect the device from moisture, dust, liquids and vapours.
- Do not use the device in damp rooms and never in potentially explosive atmospheres.
- Do not use any cleaning agents containing solvents, only a soft, dry antistatic cloth.
- Repairs may only be carried out by trained, authorised personnel.
- ALLNET® accepts no liability for improper use.

Installation and assembly site

General:

The ALL3505 IP Home Automation Central Unit may only be used in dry indoor areas. Ensure adequate ventilation. Installation must be carried out in such a way that the cables (network cables and connection cables as well as the connection cables of the consumers) are not under tension, otherwise they may come loose.

Translated with www.DeepL.com/Translator

Front-Ansicht:



Rück-Ansicht:



Sensor Ports 3-8

The new central unit for your building control system

The ALLNET ALL3505 IP Home Automation Central Unit automates all tasks in building control, such as recording and signalling environmental conditions such as temperature, humidity, pressure and much more, as well as triggering switching operations via contacts, relays and the like. This can be done manually, time-controlled or depending on the values entered.

Various scenarios such as lighting, blinds, ventilation and household appliances can be controlled with the ALLNET ALL3505 IP Home Automation central unit. There are no limits to your ideas, from temperature recording and demand-oriented heating of individual rooms, control of garden irrigation, alarming in the event of gas odour and water ingress to automatic opening and closing of blinds depending on daylight and much more.

Accessible anywhere via network, Internet and smartphone

You control everything from a PC, notebook or other mobile device, such as a smartphone or webpad. No matter whether the devices you want to control, measure, regulate are in the same building or on another continent. The ALLNET ALL3505 can be reached via an IP address. Your existing computer network and the Internet serve as the medium. The values determined can be called up directly from the device via the web browser or sent periodically by e-mail or if certain preset limit values are exceeded or not reached. An integrated XML interface is used for external data retrieval via the Internet.

Individually adapted to every requirement

The ALLNET ALL3505 IP Home Automation Central Unit has a Linux based open source operating system. Thus it offers enough freedom for own developments and adjustments of the software directly on the purpose planned by the user.

GPL declaration

The device contains software published under the GPL.

You can find the GPL online at www.gnu.de.

et.de

The interfaces

The following interfaces are available on the ALLNET ALL3505 IP DIN Building Automation Central Unit:

Eight sensor ports (RJ45), for connection of sensors, actuators, relays, etc.

One serial RS232 console port.

One USB 2.0 interface. These can be used to connect a USB memory stick, a UMTS/GPRS/GSM USB stick, a Plugwise or an EnOcean stick, for example.

Four contact inputs and an onboard temperature sensor (ALL3006 compatible) are already provided in the housing of the ALLNET ALL3505 IP Building Automation central unit.

choices

Modules of the ALL3000 and ALL4000 series can possibly be operated with the ALLNET ALL3505 IP Home Automation central unit. Many modules are also available as DIN rail versions.

Intelligent functions and programming via switching matrix

Depending on the values determined, certain actions can be programmed via the software switching matrix. For example, if the set limit values are exceeded or not reached, the measured values can be transmitted by e-mail, relays or sockets can be switched ON or OFF. This can be done once, several times and/or in certain time intervals, as long as the matrix condition exists. Internal variables are also available.

Flexible installation options

The external sensors are either plugged directly into the ALL3505 or can be set down and connected via a control cable/structured cabling. All ALLNET building automation products use a simple network cable (RJ45 connector, Cat. 5) for remote connection of the sensors to the central unit. For this purpose, however, an existing cable network, such as your own network or telephone cabling, can also be used. The maximum cable length between the central unit and module can be up to 100 meters. The modules are supplied with power by the central unit. A separate power source for the individual modules is not necessary.

Cross-location temperature recording without limits

In connection with further ALL3505, but also all other ALLNET control devices (ALL3418V2, ALL3000, ALL4000, ALL4500/5000) measuring networks can be created which are distributed over different locations. Each individual ALLNET measuring system is queried via the individual IP address and displayed and stored centrally in the ALL3505.

initial operation

First connect the ALL3505 to the LAN cable, then the device to the 230V power supply.

The internal Linux operating system takes about 90 seconds to boot. (No activity can be performed during this time)

After the boot process is completed, the bus LED starts flashing. The ALL3505 can then be accessed via the WEB interface.

Note: After setting all network parameters, please execute the "Update Check" function.

Adapting the ALL3505 to your network

Establish initial connection with LAN cable

Connect your Ethernet Switch to your ALL3505 using the included LAN cable, making sure that the plugs engage audibly.

2 Connect the ALL3505 to the PC/MAC: The ALL3505 communicates with the connected components using the TCP/IP protocol. For the ALL3505 to be recognized by your PC/MAC, the PC/MAC and the ALL3505 must be in the same network segment.

By default, the ALL3505 has the following configuration data no:

IP address: 192.168.0.100 Subnet Mask: 255.255.255.0

No username or password required

Please set the PC or MAC temporarily to a free address between 192.168.0.1 - 192.168.0.254 (not 192.168.0.100 - this is already preset by the ALL3505 IP Home Automation central unit).

If you now enter the address 192.168.0.100 in the web browser (Internet Explorer, Firefox.etc...), the ALL3505 WEB sensor meters appear on the start page.

Note: Please do not connect any additional sensors for initial commissioning.

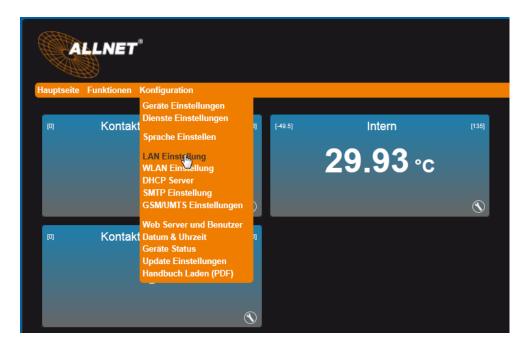


All displayed windows are caused by the internal sensors.

LAN setup

Setting the IP network address and LAN parameters

Enter the address of the ALL3505 IP Home Automation Central Unit in the web browser. Setting options under "Configuration" > "LAN Setting"





- a) HOSTNAME: Here you give your ALL3505 a name with which it is connected to the network. Only the following characters are valid: a-z, A-Z, 1-9 and hyphen (not to be used at the beginning or end). No special characters or spaces may be used. A maximum of 15 characters must be used.
- b) IP ADDRESS SETTING: When "DHCP" is selected, the ALL3505 IP Home Automation Central Unit uses an IP setting assigned by the DHCP server, points c. g. are omitted. With "static" (default), the address is assigned manually.
- c) IP ADDRESS: Address of the ALL3505 in the network (Please make sure that you do not assign an IP address twice ask your administrator if necessary).
- d) NETMASK: Default setting 255.255.255.0
- e) DEFAULT GATEWAY: Enter the default gateway, usually the IP address of your router.
- f) FIRST DNS: Enter the address of your DNS server here. For home networks, usually the IP address of your router.
- g) SECOND DNS: Default setting is 8.8.8.8 Please only change if there is a second DNS server in your internal network.

After changing the parameters, press "Save input". The ALL3505 will automatically restart. After approx. 90 seconds the ALL3505 should be accessible with the new parameters.

WLAN setup

Setting the WLAN parameters

Enter the address of the ALL3505 IP Home Automation Central Unit in the web browser. Setting options under "Configuration" > "WLAN Settings".

WLAN Mode Selection



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

- Switched off. WLAN is disabled. (default setting)
- Access point. The ALL3505 works as a WLAN access point and provides WLAN access to all other devices.
- Wireless client. The ALL3505 can be connected to an existing WLAN.

Access Point Settings

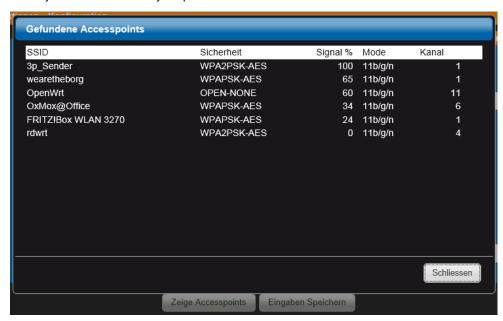
When using this mode in conjunction with a LAN, the ALL3505 serves as a WLAN access point. This allows other WLAN devices to be connected to your LAN.

This mode can also be used to control the ALL3505 standalone without LAN connection. For example, from your mobile phone via WLAN. It makes sense to activate the DHCP server for this operating mode. The description follows in a later chapter.



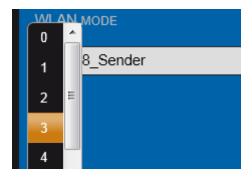
When operating as an access point, you can use the displayed information by pressing the "Show Access Points" button to clearly differentiate yourself from the existing WLANs.

Now set your access data for your private wireless network.



a) SSID: Give the wireless network your own name.

b) Channel: Select a free channel from the drop-down menu. You can recognize the occupied channels from the display of the "Show Access Points" function.



Wireless Client Einstellung

Important! If you use this operating mode, the LAN connection must be disconnected after the settings have been saved.



When operating as a wireless client, you can search and display the environment for existing WLAN access points by pressing the button "Search Access Points". To transfer the data of your WLAN simply, press the "Dial" button in the corresponding line. All data with the exception of the encryption key/WLAN password is transferred.



The parameters SSID, CHANNEL, WLAN AUTH MODE are automatically accepted by pressing the "Select" button. The "CHIFFRIER KEY" parameter must always be entered manually and must be identical to your already active WLAN.

Alternatively, you can manually set your access data for your private wireless network.

- a) SSID: Entry must be identical to your WLAN.
- b) WLAN AUTH MODE: Select the encryption method identical to your WLAN.

(OPEN NONE, Shared WEB, WPAPSK-TKIP, WPAPSK-AES, WPA2PSK-TKIP, WPA2PSK-AES).

c) CHIFFRIER KEY: Entry must be identical to your WLAN.

With "DISPLAY PASSWORD" you can visually check that no typing error has crept in.

After changing the parameters, press "Save input". The ALL3505 will automatically restart.

Now disconnect your ALL3505 from your LAN port. A simultaneous connection to WLAN and LAN leads to interference in your network (loop).

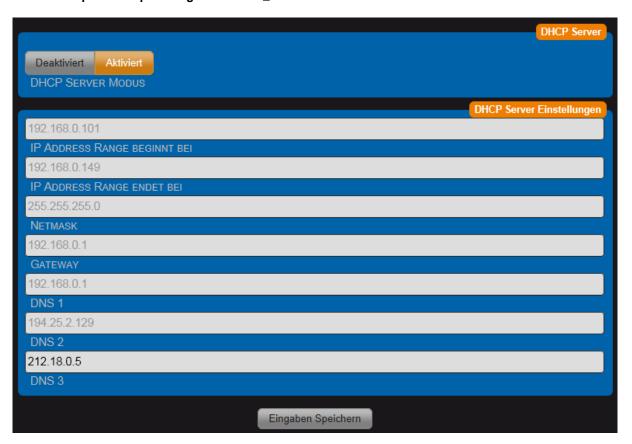
After approx. 90 seconds, the ALL3505 should be accessible with the new parameters via WLAN.

DHCP server

Setting options under "Configuration" > "DHCP Server".

The ALL3505 can operate as a DHCP server. Activate this function only when the ALL3505 is operated as a stand-alone access point. Caution: If this function is activated and the ALL3505 is erroneously connected to your LAN, malfunctions will occur. For standalone operation, select an IP address that differs from the setting used in the existing LAN and WLAN, e.g. an address in the range 192.168.100.xxx

See also: http://de.wikipedia.org/wiki/Private_IP address



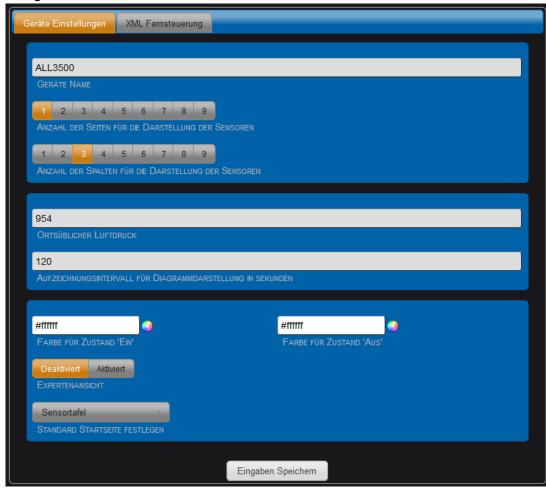
- a) DHCP Server Mode: Disabled / Enabled (Default = Disabled).
- b) IP Address Range starts at: The automatic assignment of IP addresses starts with xxx.xxx.xxx.xxx Default = 192.168.0.110
- c) IP Address Range ends at: The automatic assignment of IP addresses ends with xxx.xxx.xxx.xxx Default = 192.168.0.149
- d) Netmask: Default = 255.255.255.0 . Suitable for 192.168.xxx.xxx
- e) Gateway: Not relevant in standalone operation. Otherwise their router address.
- (f) DNA 1:. Your DNS server address. For home networks, the router address) Not relevant for standalone operation.
- g) DNS 2: Not relevant in standalone operation.
- h) DNS 3: Not relevant in standalone operation.

ALL3505 Configuration

Setting options under "Configuration" > "Device Settings".

All settings concerning the display and the behaviour of the device can be adjusted.

Device Settings



Device Name: This name is displayed at the top right of all web pages.

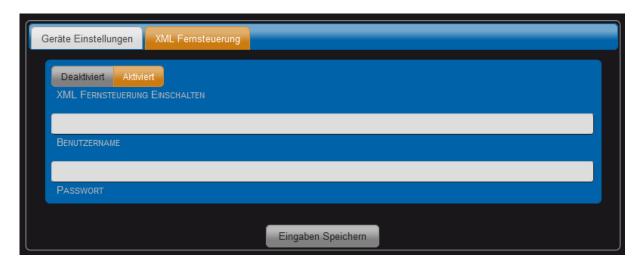


a. Number of columns: The "Sensor Panel" web page is divided into the specified number. Local air pressure: The indication of the local air pressure is necessary to correct the display values of the pressure sensors. The sensors measure the absolute air pressure, but the display is usually in relative values. The local air pressure is influenced by the current altitude above sea level and local differences. You can find out the local air pressure at the responsible weather office. More information on the subject:

http://de.wikipedia.org/wiki/Luftdruck.

- a. Recording interval for diagram display: The sensor values are transferred to the graphic display at the set interval.
- b. Expert View: This makes additional options visible on different pages. A change in the options that are then visible can have a lasting effect on functional reliability.
- c. With different browsers the additional pages or changes on these are not displayed correctly or not at all. Pressing the CTRL and F5 keys simultaneously clears the cache. The pages are then completely re-read and displayed without errors.
- d. Set default home page: You can select "Control panel" with display of the states of the actuators or "Sensor panel" with display of the sensors.

XML Fernsteuerung



- a. Enable XML remote control: Default = Deactivated. If the XML remote control is activated, the values of individual or all sensors can be queried by another system with XML commands, and thus actuators & other ALLNET switching products can be switched.
- b. User name: If this function is activated, a user name is required.
- c. Password:

recording

These settings are only visible when the expert view is activated. Log messages can be sent to an external Syslog server. If the output to the Syslog server is activated, all log files of the activated daemons are sent to this Syslog server.

If the Syslog Server is deactivated, the log output of the individual daemons is done internally on the ALL3505 in the directory /tmp/wwwreports/. Access to the system console can be established either via the COM1 interface or via the network using a telnet program. The files can also be accessed via FTP.

SSL and FTP access settings in the chapter "WEB Server and Users" "FTP Server Setting / SSH Server Setting".



- a. Switch on the Syslog server: Default = Deactivated.
- b. Loglevel Override: Log intensity setting for syslog log.
- c. Maximum log file size: Default = 5000KB
- d. Xxx Daemon Logging Level: Default = Off

Important! After troubleshooting, the setting for the log level should always be set to the default value "Off". An activated log report can impair system performance and stability.

Dienste Einstellungen

Setting options under "Configuration" > "Services Settings".

Services are installed on the ALL3505 for the integration of external actuators. This service connects to the actuators according to the selected parameters. These parameters are selected so that trouble-free operation is possible.

These settings are only visible if the expert view is activated in "Configuration Device Settings".

ALL3075

Access to external ALL307x actuators is via Ethernet.



- a) Delay between accesses: Default = 5sec. This periodic access rate is used for communication with the external actuators; the ACTUAL state is compared with the TARGET state. Current state changes emanating from the ALL3505 are performed independently of this polling rate. This polling is performed for each external actuator, so do not set the access rate for complex systems too high.
- b) Max. Connection attempts: Default = 3 This value indicates how often the query is repeated without an error being displayed. If this sensor is not accessible, the polling rate is not interrupted.

Plugwise service

Communication with Plugwise is via the Zigbee radio standard. The corresponding Plugwise USB stick must be on the ALL3505 USB port before commissioning, otherwise the Linux service Plugwise will not run.

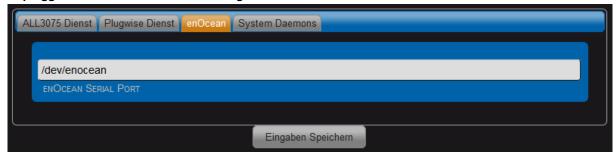


a) Plugwise Serial Port: Default = /dev/ttyUSB0

b) Delay between accesses: Default = 5

EnOcean Service

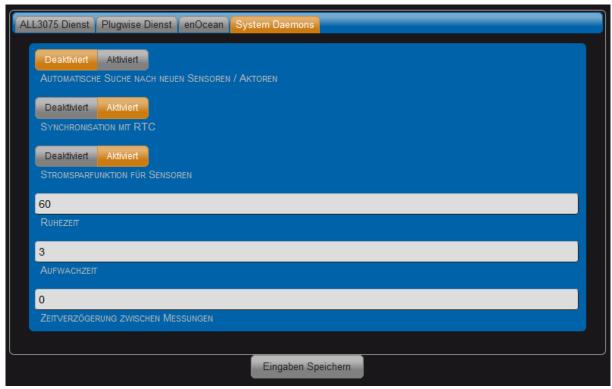
The enOcean sensors are received via a required EnOcean USB stick. The EnOcean USB stick must also be plugged in here before commissioning the device.



EnOcean Serial Port: Default = /dev/enocean

System Daemons

By changing these parameters, the query behaviour of the internal and external ALLNET sensors can be influenced.



- a) Automatic search for new sensors: Default = Enabled.
- b) Synchronization with RTC: Default = Disabled. The interrogation of the sensors is synchronized by the internal clock.
- c) Power saving function for sensors: Default = Disabled. When using the ALL3505 in conjunction with a battery, power consumption can be reduced by activating.
- d) Rest time: Default = 60 seconds. With battery operation, the sensors are supplied with power every 60 seconds with this setting. The value can be extended to several days.
- e) Wake-up time: Default = 3 seconds. Depending on the number of sensors, it may be necessary to set this time longer. Only when the power save function is activated.
- f) Time delay between measurements: Default = 0 seconds.

Setting the language

Setting options under "Configuration" > "Set language"
You can choose between German, English, Italian or Russian.



SMTP Setting

Setting options under "Configuration" > "SMTP Setting".

It is possible that the ALL3505 will send emails to a given email address in case of different events. Note: Only authenticated logins are allowed.



- a. SMTP server: Enter IP address or email server name with domain.
- b. User name for login: This username must exist on the server.
- c. Password for login: Password must be entered.
- d. Sender address: This is used for all outgoing emails.

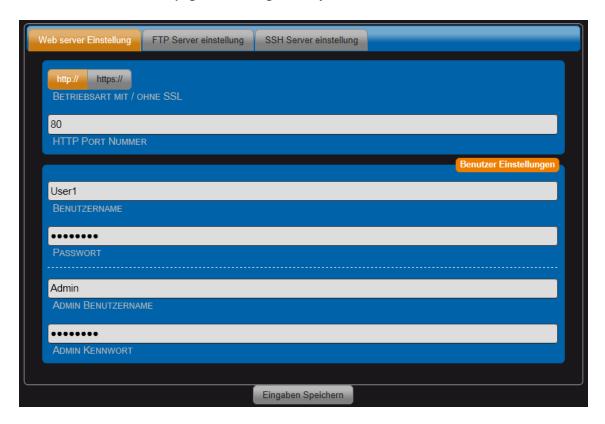
WEB Server and User Settings

Setting options under "Configuration" > "WEB Server and User".

WEB Server Setting

Access to the web pages with configuration options can be blocked for normal users by using an admin user name.

Access to the normal WEB pages can be regulated by the use of a user name.



- 1. operating 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 makes sense to always make an entry for the admin user with password. In addition, an additional user name / password can be set up. It does not make sense to set up a user name / password alone, because otherwise all websites will remain unprotected due to the open admin access.

FTP Server Setting

It is possible to access all files in the ALL3505 file system via FTP.



- 1. activate FTP server: Default = enabled
- 2. FTP port number: Default = 21
- 3. Password for user ftp: When logging in, lowercase the user name "ftp". The password is transmitted unencrypted.

SSH Server Setting

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



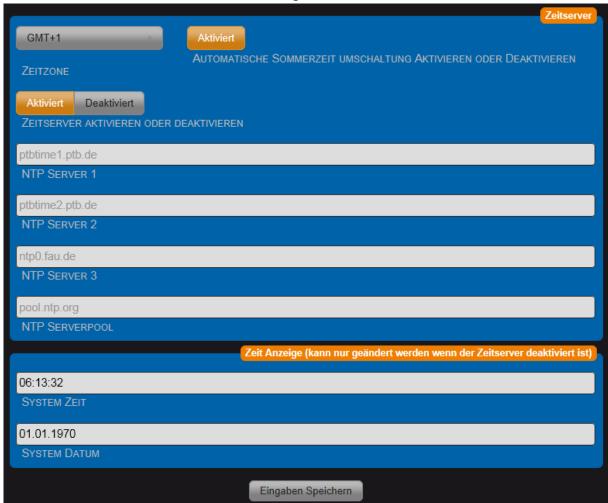
- 1. activate SSH server: Default = enabled
- 2. SSH port number = 22
- 3. password for user root: When logging in, lowercase the user name "root".
- !! This password should be changed!

Date and time

Setting options under "Configuration" > "Date and time"

The ALL3505 usually synchronizes its system time via an NTP server. The NTP time is requested at boot time and every 24 hours, the request is made via port 123, this port must be stateful open at the firewall. An internal network time server can also be used. Your DSL router may also work as an NTP server. Then enter your DSL router in NTP Server 1.

For a correct time the ALL3505 must have a working internet connection!



- a. Time zone: GMT-12 to GMT-14
- b. Activate daylight saving time: Default = Enabled.
- c. Activate or deactivate time server: Default = Enabled.
- d. NTP Server 1-3: Selection of possible time servers. Alternatively, set local time server (DSL router) in first place.
- e. NTP server pool:
- f. System Time: A manual setting of the system time and date is only possible with deactivated time server client.
- g. System Date:

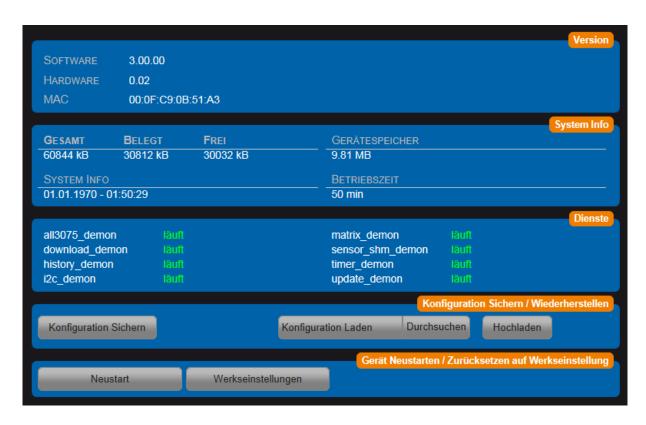
Note: Setting the system time manually makes little sense, since the ALL3505 has no battery backup for the real-time clock, and therefore the system time is always set to 00:00 o'clock on 01.01.1970. Therefore, please make sure that the time server is accessible and correctly set.

Device Status

Setting options under "Configuration" > "Device Status"

The website gives an overview of the system:

- Software version
- Hardware version
- MAC address
- storage allocation
- System Date Time
- service life
- Services Overview



The following settings and functions are available:

- Save Configuration: Saving a configuration backup file.
- Load / Browse configuration: Transports the configuration to be activated to the ALL3505.
- Upload: Activates the configuration loaded with "Load configuration".
- Restart: Restart the system.
- Factory setting: Reset all parameters. A confirmation prompt follows.

Update settings

Setting options under "Configuration" > "Update Settings"

It is possible to manually check for and install updates immediately. The ALL3505's factory setting automatically checks for updates every system startup and once every 24 hours. Optionally, it is possible to load a firmware file directly.



- a. Update Check: Manually trigger a check for updates on the ALLNET Update Server.
- b. Installed patches / updates: Displays installed patches and updates. With respective installation date.
- c. Automatic update: Default = On
- d. Patch File / Browse: Patch files can be transported to the ALL3505.
- e. Upload: The loaded patches are installed.

Download the manual

Possibility under "Configuration" > "Load manual" (example)



Depending on the previous language selection in the interface, the download of the manual is started in the corresponding language.

functionalities

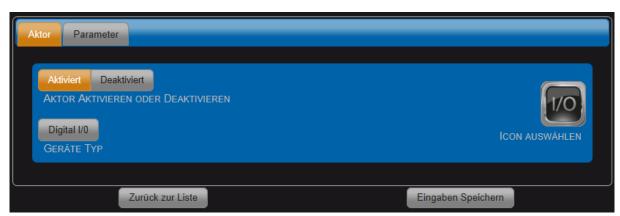
actuators

Setting options under "Functions" > "Actuators"

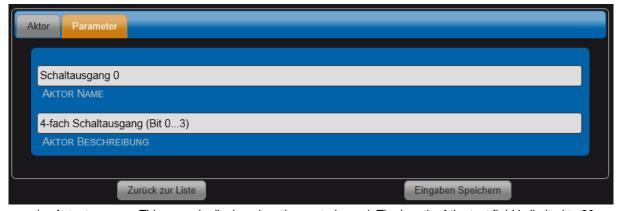
The ALL3505 has 4 internal switching relays with which loads up to 8A can be switched. In addition, the ALL3505 can be expanded with other ALLNET switching actuators such as ALL3073 / ALL3075 / ALL3075V2, ALL3075WLAN and other radio standards such as Plugwise/EnOcean actuators. These devices are listed as actuators and can control/switch a load and measure possible current consumption. ALL3075V2 & ALL3075WLAN can display the current power consumption in addition to the switching process. Communication is either via LAN or WLAN. With Plugwise Zigbee is used for communication, the USB stick contained in the Plugwise Starterkit is plugged into the USB socket of the ALL3505.

Managing internal actuators





Interne Aktoren können nur Aktiviert oder Deaktiviert werden.



- Actuator name: This name is displayed on the control panel. The length of the text field is limited to 20 characters.
- b) Actuator Description: This description is for information only.

Creating an external actuator



Press "+" to create a new actuator.

Selecting an actuator



- 1. activate or deactivate: This allows actuators that have already been created to be deactivated.
- 2. device type: Select in scroll down procedure.



- 1. select ICON/View: You can see a selection by clicking on the ICON.
- 2. Delete this actuator: This selection only appears for actuators that have already been created.

Actor Parameter



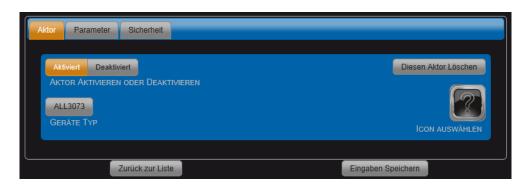
- 1. actuator IP address: Each actuator has its own IP address. Enter this address here.
- 2. actuator name: Choose a name suitable for the task. This name is displayed on the main page.
- 3. actuator description: The description is for detailed information but is not displayed on the main page.

Aktor Sicherheit



- a) User name: Only if you have assigned a user name to the actuator itself, this must be entered here.
- b) Password: Only if you have assigned a user name on the actuator itself, the password must also be entered here.

Actuator Delete



Delete this actuator: This option is only available for actuators that have already been created.

Virtual Sensors

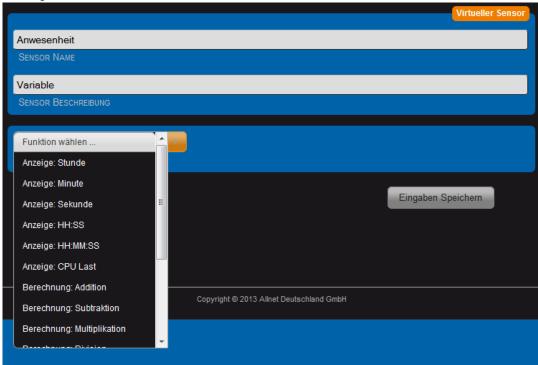
Virtual sensors offer a wide range of possibilities for displaying values. The outputs of several sensors can also be combined. Virtual sensors can have the task of variables. Complex control networks can be built up in this way. The result of a virtual sensor is displayed on the main page in the same way as a sensor. The output can also be suppressed, the output value can be used for further operations.

Creating Virtual Sensors



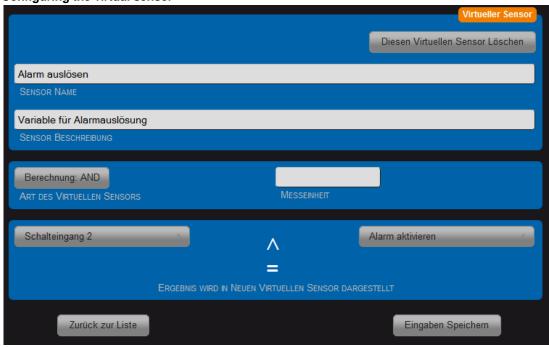
To create a new virtual sensor, press "+".

Creating a virtual sensor



- 1. Sensor Name: This name is displayed on the sensor panel. The length of the text field is limited to 20 characters.
- 2. Sensor Description: Description for information purposes only.
- 3. Select function: System variables or calculation and comparison operators are available.4. System variables: Hour, minute, second, CPU load.
- 5. Calculation: addition, subtraction, multiplication, division.
- 6. Logical operators: AND, OR, XOR, ABS(), only >0.

Configuring the virtual sensor



- a) Delete virtual sensor: This option is only available after the first saving.
- b) Sensor Name:
- c) Sensor Description
- d) Type of virtual sensor (operator):
- e) Unit of measurement: Text field
- f) Condition 1: Sensors or virtual sensors can be selected.
- g) Condition 2:

XML Sensors

XML-enabled devices can be queried by XML sensors. XML-enabled devices that can be accessed via the Internet can also be integrated into the functions of the ALL3505.

activities

Under "Actions" you can program the triggering of actions. Actuators can be switched and or emails can be sent. The system status can also be time-controlled or a boot email can be sent. A total of 32 switching points can be set.



A new switching point is created by clicking the "+" sign.

Alarm



- a) Alarm: Enabled / Disabled. Created switching points can thus be temporarily deactivated.
- b) Name: Maximum 20 characters. The designation is displayed in the table of switching points.
- c) Description: Provides a comprehensive description.
- d) Delete alarm: This menu item only appears after saving.

Compare



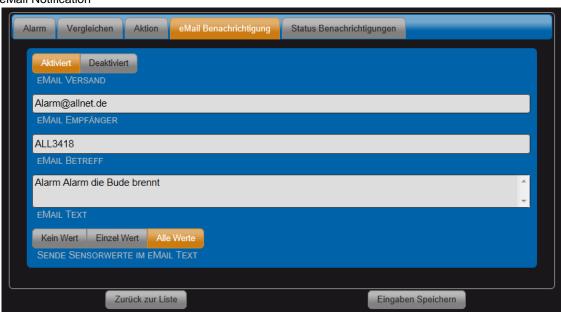
- a) Select sensor: All already created sensors can be selected.
- b) Select comparison sensor: You can choose between sensor or constant.
- c) Condition: operators < <= = >= > <>
- d) Constant: Values with or without decimal point can be entered.

campaign



- a) Actuators: All already created actuators can be selected.
- b) Actuator action: On / Off / Switch.
- Script to start: Optionally, the ALL3505 must have a Linux shell script that is started by this call.
 This function
- d) Execute only once: If this switch is activated, the action is executed exactly once when the threshold value is reached. If the switch is deactivated, the action is executed continuously (usually 10 times per second).
- e) Alarm pause (seconds): Default = 1 second The switching rule is ignored after triggering before it is switched back on. (similar to the HOLDOFF setting of an oscilloscope)

eMail Notification



- a) Email dispatch: Activated / Deactivated
- b) Email recipient: name@adresse.xx
- c) Email Subject:
- d) Email text:
- e) Send sensor values in the email: Selection of the display values to be sent.

Status Notifications

Email notifications about the system status can be executed. Enabling these notifications disables all other settings.



- a) Select status: A boot email or system status can be sent.
- b) Shipping time: If System Status is selected, a daily time can be set.

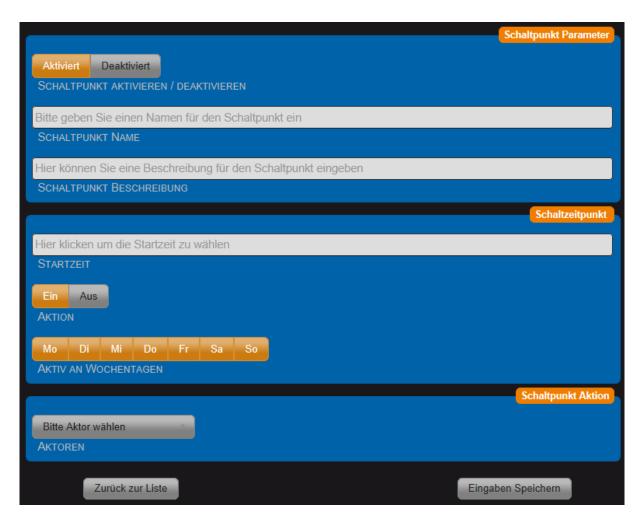
timing

Setting options under "Functions" > "Time control"

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



After clicking the plus sign, the mask for setting up a new switching point opens automatically.



- 1. switching point activation / deactivation.
- 2. switching point name: Select a name suitable for the switching point. This name is displayed in the overview page.
- 3. switching point description: The description is for detailed information but is not displayed on the overview page.

4. Start time: Select the desired time with the three sliders.

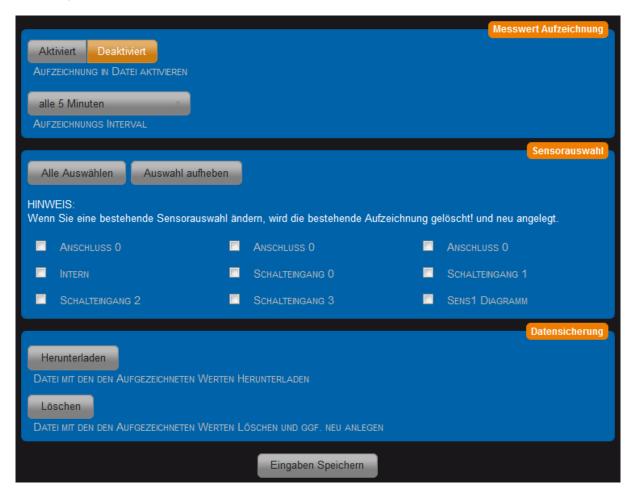


- 5. Action: On / Off. If "On" is selected, the relay is closed at this moment. For various tasks, it may be necessary for the relay to open to the starting point, but "Off" can be selected.
- 6. active on weekdays: selection by clicking.
- 7. actuator selection: Select the desired actuator with the scroll down menu.

After saving, all timers are displayed in the overview.



Recording



Camera Upload

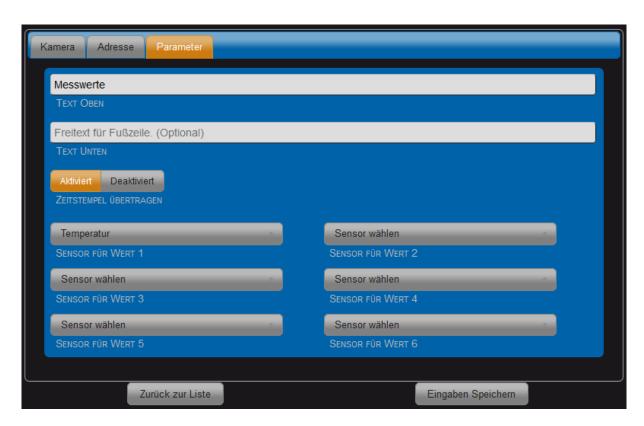
This function only supports Mobotix cameras. The selected sensor values are displayed in the camera image. This allows you to create an application: weather station with image upload.



- a) Activate Upload:
- b) Camera Name: This name is displayed in the overview.
- c) Camera Description: Description for information purposes only.



- a) Camera address: Enter IP address or DNS name.
- b) Transmission interval: Default = 30.
- c) User name:
- d) User password:



- a) Top text:
- b) Text of enterprises
- c) Transfer time stamp: Default = Deactivated
- d) Sensor for value 1-6:

home page

sensor panel

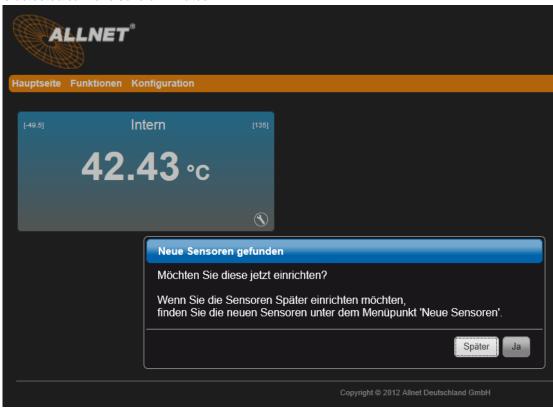
The current sensor values are displayed on the main page of the sensor panel. The layout and color scheme have been defined in the chapter entitled "Configuration" > "Device Settings".

The sensors already integrated in the device can be found automatically in the sensor panel.



Setting up new sensors

It is recommended to set up the sensors only after the basic installation of the ALL3505. Ideally, only one new sensor is connected to the ALL3505 at a time, making assignment and naming easier. Various sensors/actuators can be connected. Example ALL3006, ALL3018, ALL4529 The time until a new sensor is detected can take several minutes.



As a rule, the sensors are integrated automatically. If the sensor cannot be assigned automatically, a manual assignment is necessary. For some sensors there are different options that can be configured via a separate selection window.



These sensors contained in this list were detected automatically.



After returning to the sensor panel, the newly detected sensors are listed.



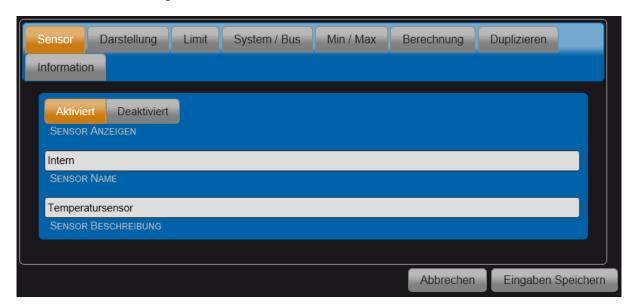
The sensor window can be moved by clicking with the mouse in the area of the labeling.



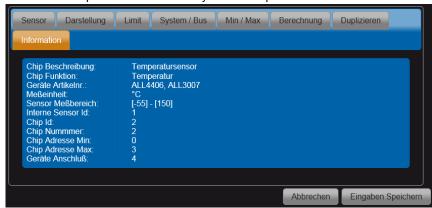
Sensor configuration



Click the tool icon to configure the new sensors.



1. information: output of sensor inventory data. See picture below.



- 2. sensor displays: Default = Enabled, If Disabled is selected, the sensor no longer appears on the sensor panel. A logical evaluation of the signal is still possible.
- 3. Sensor Name: This name is displayed on the sensor panel. The length of the text field is limited to 20 characters.
- 4. sensor description: The text is for information only.
- **a)** Note: Hidden sensors can be reactivated under "Hidden Sensors" on the main page. This option is only visible when sensors are disabled.



Sensor Display



Display of the sensor: There are three types of display (see below)



Text Instrument Diagramm

Text

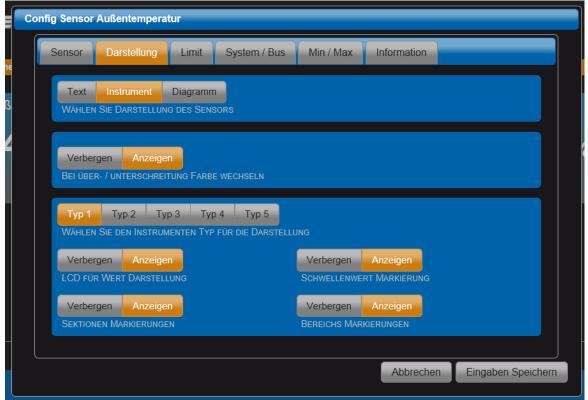
Display in Textform.



- 1. select display of the sensor: (text)
- 2. Minimum and maximum value: The display shows/selects the minimum and maximum values.
- 3. color change on over/underrange: The background around the instrument is highlighted when exceeding or falling below the setpoints.

tool

Display in analog instrument form .



- a) select display of the sensor: (instrument)
- b) change colour at over / undercut: The background color of the instrument changes when the value exceeds or falls below a setpoint. Setpoint is defined under Limit.
- c) Select the instrument type for the display: There are 5 types to choose from.

- d) LCD for value display: In addition to the pointer display, the value is displayed as a digital number.
- e) section markings:
- f) marking threshold:
- g) marking area:

chart

Display in diagram form .



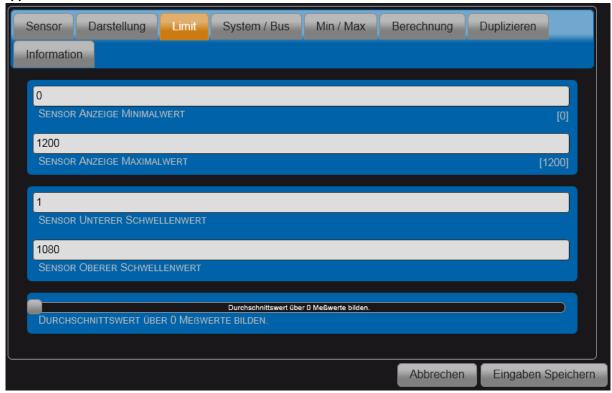
- a) select display of the sensor: (diagram)
- b) change colour at over / undercut: The background color of the diagram display changes when a setpoint is exceeded or not reached. Setpoint is defined under Limit.
- c) Select the color for the graph:



- d) fill up to the axle: The display is executed as an area.
- e) lower threshold value: Default = Display. Color can be selected.
- f) upper threshold value: default = display. Color can be selected.

limit

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



- a) Sensor display minimum value:
- b) Sensor Display maximum value:
- c) Sensor lower threshold value:
- d) Upper threshold sensor:
- e) Calculate the average value over measured values: Settings: Off or 1 100.

System / Bus

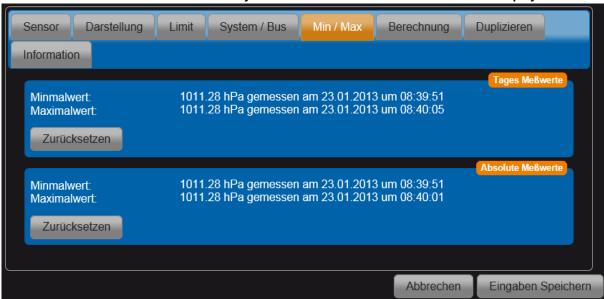
This display only appears when the expert view is activated in the "Device Settings" menu.



- a) Bus speed: If the sensor is operated with a longer cable, it may be necessary to reduce the speed. The higher this value is, the slower the bus is clocked.
- b) Chip address: The address can be set manually on various sensors.
- c) If this is subsequently changed on the sensor, this parameter must be adjusted.
- d) Priority: All sensors with "Normal" priority are scanned every second. For sensors with low priority, only one sensor with normal priority is queried at a time following the sensors. This means that with 10 sensors with low priority, each sensor is only read again every 10 seconds. The low priority relieves the device and can improve the reaction speed when building a website. In addition, temperature sensors work more accurately because self-heating is reduced by the measuring process.

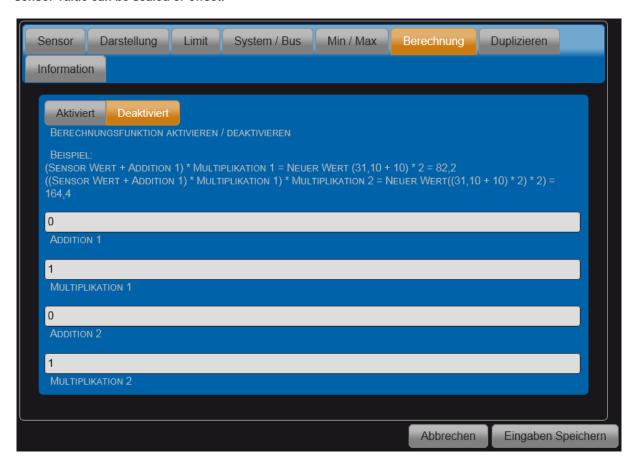
Min / Maximum value

The minimum and maximum values of a day and the values over the entire runtime are displayed.



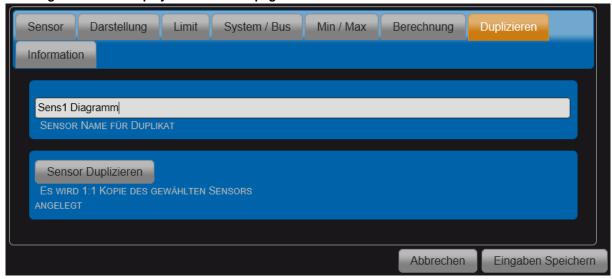
reckoning

Used to adjust the sensor values displayed or used in virtual sensors. By activating this calculation, the sensor value can be scaled or offset.



duplication

By duplicating a sensor can be used several times. As an example, a representation as an instrument and as a diagram is to be displayed on the main page at the same time.



reset

It can happen that your ALL3505 is no longer accessible due to incorrect user settings, that a password has been set and forgotten, etc.. In this case, you can use the following reset procedure to reset all settings in the device back to the factory settings (all settings and values are lost): Disconnect the device from the power supply. Using a non-conductive pointed object (e.g. a toothpick), press and hold the RESET button through the small hole next to the USB slot (the button must remain pressed!). Now supply the ALL3505 with power and wait approx. 3 minutes until the BUS LED starts flashing. Release the button NOW. After this, the reset process is complete and all settings are back in the factory settings.

cleaning

Always unplug the power supply unit from the mains socket before cleaning the device.

When cleaning, use a slightly damp and soft cloth (preferably an

microfibre cloth). Never use cleaning agents, alcohol or other solvents for cleaning. Please note that the housing contains modern electronics. Never use so much water or cleaning agent that it can penetrate through the side ventilation slots (holes) or through the small gaps between the metal frame or through the recesses in the connections into the interior of the ALL3505. If it does happen, please do not reconnect the device and contact our support.

Technische Daten

External connections:	8x RJ45 Sensor/Actuator-Ports
	1x RS232 Console
	1x USB 2.0
Internal connections:	1x Temperature sensor onboard
	1x RJ45 Ethernet 10/100BaseTX
Network:	2,4 GHz Wireless N, bis zu 150 Mbps
	nach IEEEE802.11b/g/n
Network Protocols:	HTTP/HTTPS, TCP/IP, NNTP, SMTP, FTP, SSH
Operating systems:	alle netzwerkfähigen Betriebssysteme
power supply	external 12V DC 1A power supply Power consumption approx. <3W (without additional modules)
	106 * 90 * 60mm (Breite * Höhe * Tiefe)
Dimensions and weight:	300g
	PC/ABS DIN-rail housing
Temperature operation:	0 - 50°C
Humidity	10% - 85% (non-condensing)
Temperature storage:	-20 - 60°C
Storage of humidity:	5% - 90% (non-condensing)
Certification	CE, RoHS
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CE-Declaration of Conformity

For following equipment:

Germering, December 13, 2013

ALL3505 IP DIN rail Automation Gateway



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 ALL3505 IP DIN rail automation gateway conforms to the European Directives EMV 2004/108/EG

This equipment meets the following conformance standards:

EN 50385: 2002 EN 300 328 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

Germering, 13.12.2013

Wolfgang Marcus Bauer

CEO