expert net control 2101/2151
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1 Security Advise

The device must be installed only by qualified personnel according to the following installation and operating instructions. The manufacturer does not accept responsibility in case of improper use of the device and particularly any use of equipment that may cause personal injury or material damage.

Check if the power cord, the plug and the socket are in proper condition.
The device can be connected only to 230V AC (50 or 60 Hz) sockets.
Always connect the device to properly grounded power sockets. To connect a Power-over-Ethernet device, use only certified and CE marked hardware.

The device is intended for indoor use only. Do NOT install them in an area where excessive moisture or heat is present.

Because of safety and approval issues it is not allowed to modify the device without our permission.

Please note the safety advises and manuals of connected devices, too.

The device is NOT a toy. It has to be used or stored out of range of children.
Packaging material is NOT a toy. Plastics has to be stored out of range of children. Please recycle the packaging materials.

In case of further questions, about installation, operation or usage of the device, which are not clear after reading the manual, please do not hesitate to ask our support team.

2 Description

expert net control 2101/2151 is a handy little device suitable for different kinds of telecontrolling. In- and output ports on the device allow to monitor up to two sensors and switch a contact through a TCP/IP network. expert net control 2101/2151 makes it possible to monitor and switch from any computer in the same LAN and from the Internet.

For installation just connect the power and network cables to expert net control 2101/2151.

After the device has received an IP address every client in the same network is able to switch the output and control the sensors via webinterface. expert net control 2101/2151 offers also features like SNMP and Syslog.

expert net control 2101/2151 comprises of two sensor interfaces and one switching output.

A watchdog function for the output is implemented.

3 Hardware

3.1 Content of delivery

Included in delivery are:
- expert net control 2101/2151

3.2 Connections

1) Status LED
2) LED Output Port
3) Button "select"
4) Button "ok"
5) Ethernet jack (RJ45)
6) Connector for power supply unit
7) Connector for Sensor 2 (RJ45)
8) Connector for Sensor 1 (RJ45)
9) Terminal clamp Output

3.3 Installation

1.) Connect the power supply cable to the of expert net control 2101/2151 and a socket. expert net control 2101/2151 now is booting and shortly after ready for usage.

2.) Plug the Ethernet cable into the ethernet connector (RJ45) of expert net control 2101/2151 and connect it to your Ethernet.
3.) Connect the clients to the Power Ports of the device.

1.) Connect the power supply unit to the power connector at expert net control 2101/2151 (6) and a power socket. in case you are using the Power over Ethernet device, there is no need to connect the power supply unit. expert net control 2101/2151 now is booting and shortly after ready for usage.
2.) Plug the Ethernet cable into the ethernet connector (RJ45) of expert net control 2101/2151 and connect it to your Ethernet.
3.) Connect the terminal clamp of the output to your device, and plug the sensors into the sensor connectors (RJ45).

3.4 Status LED

The Status LED shows different states of the device:
- Status LED red: Device is not connected to the ethernet
- Status LED orange: Device is connected to the ethernet, TCP/IP settings are not allocated
- Status LED green: Device is connected to the ethernet, TCP/IP settings allocated, device is ready to use
- Status LED blinks alternately red and green: Device is in Bootloader mode.

4 Configuration

4.1 DHCP

After switch-on expert net control 2101/2151 looks for a DHCP server and requests an available IP address .

Please check the IP address allocated to expert net control 2101/2151 in the DHCP server settings to make sure that the same address is used at every reboot.
4.2 Network settings with GBL_Conf

For changing the network properties manually, the program GBL_Conf.exe is required. This tool is available for free on our website www.gude.info.
Furthermore GBL_Conf.exe enables you to install firmware updates and to reset expert net control 2101/2151 to its factory settings.
Activate bootloader mode of expert net control 2101/2151 and run GBL_Conf.exe. The program will look automatically for connected devices and will display their network configuration.

If the displayed IP address accords with the factory settings (192.168.0.2), there is either no DHCP server available in the network or no free IP address could be allocated.
Enter a free IP address and the according netmask in the entry mask, then save these changes by clicking on Program Device → SaveConfig.
Restart the firmware of expert net control 2101/2151, so that the changes will take effect. Now click on Search in order to have the new network configuration displayed.
4.3 Configuration via webinterface

Go to the website of expert net control 2101/2151. Enter the IP address of expert net control 2101/2151 into the address line of your internet browser:
http://"IP address of expert net control 2101/2151"/
and press LOGIN.

To enter the configuration menu, click on „Configuration“ on the upper left side of the screen.

4.3.1 Configuration - Output Ports

4.3.1.1 Label

A name with a maximum of 15 characters can be entered here for each output.

4.3.1.2 Initialization status

The output's switching state after a power-on of the device can be defined here (on, off, remember last state).

4.3.1.3 Initialization delay

While this function is enabled, the output will reactive after the stated time, when it got switched off.

4.3.1.4 Repower delay

While this function is enabled, the output will reactive after the stated time, when it got switched off.

4.3.1.5 Watchdog Funktion

While using the watchdog, electrical devices can be observed. The watchdog sends ICMP-pings or TCP-pings to the device. If these pings were not answered, during a defined delay (time or pings), the power port will reset. The watchdog function allows to restart e.g. crashed servers or NAS systems.

You can check the watchdog function and other information inside of the switching menu. There are different colors:
Green text: Watchdog is active and receives ping replies
Orange text: Watchdog is activating at the moment, waiting for first ping reply
Red text: Watchdog is active and does not receive ping replies any longer

When watchdog is activating it waits for a first ping reply. During this time, the information is written as an orange text. After the receive of the first ping reply, it switches to active, written in green letters.

When a watchdog reset a power port, the watchdog again waits for a first ping reply, as stated above.

4.3.1.5.1 Enable Watchdog

Here you can activate the watchdog for this output.

4.3.1.5.2 Watchdog type

Here you can switch between ICMP ping or TCP ping.

4.3.1.5.3 Host IP

Here you can enter the IP address this watchdog should observe.

4.3.1.5.4 TCP Port

If TCP pings are used, here you can enter the TCP port. A TCP port is not needed, when ICMP pings are chosen.

4.3.1.5.5 Ping interval

Here you can enter the time between two pings.

4.3.1.5.6 Ping retry

Here you can enter how often the ping should be repeated, before a power port reset will be done.
4.3.2 Configuration - IP address

4.3.2.1 Hostname

Enter the host name of expert net control 2101/2151. expert net control 2101/2151 uses this name to connect with DHCP server.

Special signs may destabilize your network.

All changes need a restart of the firmware to get valid.

4.3.2.2 IP Address

Here you can change the IP address of expert net control 2101/2151.

All changes need a restart of the firmware to get valid.

4.3.2.3 Netmask

Here you can change the netmask of expert net control 2101/2151.

All changes need a restart of the firmware to get valid.

4.3.2.4 Gateway

Here you can change the standard gateway of expert net control 2101/2151.

All changes need a restart of the firmware to get valid.

4.3.2.5 Use DHCP

Here you can set, if expert net control 2101/2151 shall get its TCP/IP settings directly from your DHCP server. If DHCP is activated, expert net control 2101/2151 proves if a DHCP server is active inside of your LAN. Then expert net control 2101/2151 requests TCP/IP settings from this server. If there is no DHCP server inside of your network, we recommend to deactivate this function.

All changes need a restart of the firmware to get valid.
4.3.3 Configuration - IP ACL

IP Access Control List (IP ACL) acts as an IP filter for your expert net control 2101/2151. Whether it is active, hosts and subnets only can contact expert net control 2101/2151, if their IP addresses are stated in this IP ACL.

e.g.: "http://192.168.0.1" or "http://192.168.0.1/24"

If you locked yourself out by mistake, please activate the bootloader mode of expert net control 2101/2151, start Gbl_Conf.exe and deactivate IP ACL.

You can find more information about configuration of IP ACL or have a look at http://www.gude.info/wiki.

4.3.3.1 Reply ICMP-Ping requests

Here you can set, if expert net control 2101/2151 shell react on pings.

4.3.3.2 Enable IP Filter

Here you can activate the IP Access Control List (IP ACL) of expert net control 2101/2151.

If IP ACL is active, DHCP and SNMP only work, if all necessary servers and clients are registered in this list.

4.3.4 Configuration - HTTP
4.3.4.1 HTTP Port

Here you can enter the HTTP port number, if necessary. Possible numbers are 1 ... 65534 (standard: 80). To get access to expert net control 2101/2151, you have to enter the port number behind the IP address of expert net control 2101/2151, e.g.: http://192.168.0.2:1720

All changes need a restart of the firmware to get valid.

4.3.4.2 Require HTTP Password

Password protected access can be activated here. In this case, a user and an admin password have to be defined. Passwords have a maximum lengths of 15 characters. Administrators are authorized to switch all ports and to modify the settings of expert net control 2101/2151 and of all ports. The username of the admin is “admin”:

Users are authorized to switch all ports but are not allowed to modify the settings of neither expert net control 2101/2151 nor the ports. The username of the user is “user”.

If you have forgotten your password, activate the bootloader mode of expert net control 2101/2151, start GBL-Conf.exe and deactivate the password request.

All changes need a restart of the firmware to get valid.

4.3.4.3 Check Password on start page

If activated, the user has to enter his password, before logging in to the webinterface.

4.3.5 Configuration - Messages
4.3.5.1 Generate Temperature Messages

Here you can configure if and at which Min-/Max-Temperature **expert net control 2101/2151** shell send temperature alerts via SNMP-Traps and Syslog.

4.3.5.2 Max Temperature

Here you can define the maximum temperature, if the sensor measures this temperature the device will generate an alert via SNMP and Syslog.

4.3.5.3 Min. Temperature

Here you can define the minimum temperature, if the sensor measures this temperature the device will generate an alert via SNMP and Syslog.

4.3.6 Configuration - SNMP

4.3.6.1 Enable SNMP-get

Here you can activate SNMP-get protocol of **expert net control 2101/2151**.

Use SNMP only if your network is fitted for.
4.3.6.2 Community public

Here you can enter the SNMP public community.

Use SNMP only if your network is fitted for.

4.3.6.3 Enable SNMP-set

Here you can activate SNMP-set protocol of expert net control 2101/2151.

Use SNMP only if your network is fitted for.

4.3.6.4 Community private

Here you can enter the SNMP private community.

Use SNMP only if your network is fitted for.

4.3.6.5 Download SNMP MIB

Here you can download the MIBs of expert net control 2101/2151.

Use SNMP only if your network is fitted for.

4.3.7 Configuration - SNMP Trap Receiver List

4.3.7.1 Enable Traps

Here you can activate SNMP-traps. if enabled, expert net control 2101/2151 will dispatch SNMP-traps to all receivers listed. Receivers have to be listed as follows: IP address (and, if necessary the HTTP port), e.g.: 192.168.0.2:8000

Use SNMP only if your network is fitted for.

4.3.7.2 Trap Version

Here you can choose between SNMP-traps standard v1 and v2c.

Use SNMP only if your network is fitted for.

More information about the SNMP functions of expert net control 2101/2151, you can find in chapter SNMP, on http://www.gude.info/wiki or ask our support team.
4.3.8 Configuration - Syslog

Syslog messages are simple text messages transmitted to a syslog server using UDP. Linux OS regularly have a syslog daemon installed, e.g. syslog-ng. For Windows there are some freeware tools available. On following events, **expert net control 2101/2151** will send a syslog message:

- Booting up
- Activation/deactivation of syslog
- Switching of Power Ports

You can find more information about configuration of Syslog in chapter Configuration - Syslog or have a look at [http://www.gude.info/wiki](http://www.gude.info/wiki).

### 4.3.8.1 Enable Syslog

Here you can activate Syslog of **expert net control 2101/2151**.

### 4.3.8.2 Syslog Server IP

If syslog is active enter here the IP address of you Syslog server.

### 4.3.8.3 Syslog Port

If syslog is active enter here the port number, that your Syslog server uses to receive syslog information.

More information about Syslog you can find in chapter Syslog, on [http://www.gude.info/wiki](http://www.gude.info/wiki) or ask our support team.

4.3.9 Configuration - E-Mail

[Configuration - E-Mail details]
4.3.9.1  Enable E-Mail

Here you can activate the e-mail function of the device.

4.3.9.2  E-Mail server

Enter the e-mail server, e.g. mail@gmx.net

4.3.9.3  Sender address

Enter the address, the device should use, when sending e-mails.

4.3.9.4  Recipient address

Enter the e-mail address of the recipient.

4.3.9.5  Enable Authentication

If your e-mail server needs an authentication, you can enter it here.

4.3.9.6  Username

Enter the username, the device should use to log on your e-mail server.

4.3.9.7  Set new password

If your server needs a password for sending e-mails, you can enter it here.

4.3.9.8  Repeat password

Repeat the password, to enable it.

5  Operation

5.1  Switching at the device

expert net control 2101/2151 disposes of two buttons: “select” and “ok”. By pushing “select”, the LED of the Output starts blinking which means that it is selected. If you want to change the switching state of the selected Output, push the “ok” button for two seconds.

You can check the status of the Output by the color of the Output LED (green=enabled/red=disabled).
5.2 Switching by Webinterface

Go to the website of **expert net control 2101/2151**. Enter the IP address of **expert net control 2101/2151** into the address line of your internet browser:

http://"IP address of expert net control 2101/2151"/ and press LOGIN

5.2.1 Switching

Here you are able to switch the ports directly.

You can check the status of the output by the color of the output status LED (green=enabled/red=disabled).

5.2.2 Batchmode

The output of **expert net control 2101/2151** can be switched on or switched off for a selectable delay (1-30 sec. or 1-30 min.). After the chosen delay the selected port will be switched off or switched on again automatically.

Optionally the device can be accessed by using the perl script „EPC_Control2.pl“ through the command line (e.g. for automatic or time-triggered switching).

For more information please refer to our website:

**www.gude.info/wiki**
5.2.3 Control Panel


In der Mitte des Fensters sehen Sie die Messwerte der Sensoren und den Status des Power-over-Ethernet-Netzteils. Neben den Messwerten werden die Max/Min Werte der letzten 24 Stunden dargestellt. Diese können Sie durch einen Klick auf Reset Min Max zurücksetzen.

5.2.3.1 Reset

By using this function, the port will be switched off. Ten seconds later, the port will switch on again, automatically.

5.2.3.2 Batchmode

The output of expert net control 2101/2151 can be switched on or switched off for a selectable delay (1-30 sec. or 1-30 min.). After the chosen delay the selected port will be switched off or switched on again automatically.

Optionally the device can be accessed by using the perl script “EPC_Control2.pl” through the command line (e.g. for automatic or time-triggered switching).

For more information please refer to our website: www.gude.info/wiki

5.3 Sensor

Connect the temperature sensor with the sensor connector at the front of the device. If it is connected exactly, the recent temperature is displayed in the login window, in the switching window and can be requested via SNMP.

The temperature sensor can be ordered as additional supplies. More information can be found at www.gude.info or requested at mail@gude.info.

<table>
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<tr>
<td>Cable length</td>
<td>~ 2m</td>
</tr>
<tr>
<td>Connection</td>
<td>RJ45</td>
</tr>
<tr>
<td>Measurement</td>
<td>-20°C - +100°C ±2°C (max) and ±1°C (typical)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hybrid sensor 7102</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable length</td>
<td>~ 2m</td>
</tr>
<tr>
<td>Connection</td>
<td>RJ45</td>
</tr>
<tr>
<td>Measurement</td>
<td>-20°C - 80 Grad, ± 0,5°C / Moisture 0-100% ±3%</td>
</tr>
</tbody>
</table>
6 Features

6.1 Bootloader mode

To activate the bootloader mode of expert net control 2101/2151 the select button must be pushed while restarting the device. In bootloader mode it is possible to disable the password protection, to update the firmware and to restore the default settings by running the program GBL_Conf.exe.

If the device runs already, press the buttons "select" and "ok" for three seconds. The bootloader mode of expert net control 2101/2151 is indicated by "BOOT-LDR" appended to the device name in the program window of GBL_Conf.exe.

During bootloader mode an alteration of the relais is not possible.

To restart the firmware, without toggle the Power Ports, press the buttons select and ok for three seconds again.

6.2 Firmware update

In order to update the firmware the program GBL_Conf.exe and the latest firmware are needed.

Start the device in bootloader mode and run the program GBL_Conf.exe. On the left side of the program window all Gude devices that are in the network are listed. Select the device, that should be updated, click on Program DeviceFirmware Update and determine the location of the new firmware.

Please note: The up-to-date firmware and GBL_Conf.exe can be found at www.gude.info, free to download.

6.3 Technical information

Connections: 1 x Ethernet jack (RJ45)
2 x Connector for sensors (RJ45)
1 x Terminal clamp Output
1 x Connector for power supply unit

Network: 10/100 MBit/s 10baseT Ethernet

Protocols: TCP/IP, HTTP,
SNMP v1 und v2c, SNMP traps, Syslog

Output: 0,5A 60V AC / 0,5A 30V DC
Input: 7,5-12V DC, 0,5A

Power supply: Power supply unit or Power over Ethernet (expert net control 2151)

Operating temperature: 0°C-50°C

Dimensions: 65mm x 100mm x 24mm (L x H x W)

Total weight: ~ 0,3 kg

You can use expert net control 2151 with PoE and Power supply unit as well.

6.4 Fabrique settings

In order to restore the default settings the device must be started in bootloader mode. Besides that the program GBL_Conf.exe is required.

Run GBL_Conf.exe and select the device whose settings should be restored. Then click on Program Device -> Reset to Fab default.

Please notice that all current settings will be deleted. The default settings will be loaded when the firmware of the device is restarted the next time.
7 Support

More information, current drivers and software can be found on http://www.gude.info.

In case of further questions, about installation or operation of expert net control 2101/2151, please have look at www.gude.info/wiki or do not hesitate to contact our support (mail@gude.info).
8 Declarations of conformity

Konformitätserklärung / Declaration of Conformity

Die Firma / The manufacturer

Gude Analog- und Digitalsysteme GmbH

Anschrift/Address: Eintrachtstr. 113, 50665 Köln
Teilohn/Phone: 0221 - 912 90 97 Fax: 0221 - 912 90 98 Web: www.gude.info Mail: mail@gude.info

erklärt hiermit, dass die Produkte / hereby declares that the following products

expert net control 2120 (all versions), expert net control 220 (all versions)

Fernwirksysteme für TCP/IP Netzwerke / Remote control devices for TCP/IP networks

mit den Bestimmungen der nachstehenden EU-Richtlinien übereinstimmen / are in accordance with the following european directives

Referenz-Nr / Reference no. | Titel / Title
--- | ---
2006/95/EWG / 2006/95/EEC | Niederspannungsrichtlinie / Low Voltage Electrical Equipment
93/68/EWG / 93/68/EEC | CE Kennzeichnung / CE marking

und dass die nachstehenden Europäischen Normen zur Anwendung gelangt sind. / and comply with the following european standards.

| Norm / Standard | Titel / Title
--- | ---
EN 55022:2006 + A1, A2 | Einrichtungen der Informationstechnik: Funkstöreigenschaften – Grenzwerte und Messverfahren
EN 55022:2006 + A1, A2 | Information technology equipment: Radio disturbance characteristics - Limits and methods of measurement
EN 55024-1:1998 + A1, A2 | Einrichtungen der Informationstechnik: Störfestigkeits eignenschaften – Grenzwerte und Prüfverfahren
EN 55024-1:1998 + A1, A2 | Information technology equipment: Immunity characteristics - Limits and methods of measurement
EN 61000-3-2:2006 | Elektromagnetische Verträglichkeit Teil 3-2: Grenzwerte - Grenzwerte für Oberschwingungsschirme
EN 61000-3-2:2006 | Electromagnetic compatibility Part 3-2: Limits - Limits for harmonic current emissions
EN 60950-1:2006 | Sicherheit von Einrichtungen der Informationstechnik
EN 60950-1:2006 | Safety for Industrial Control Equipment

Köln, 26.11.2010

Dr. Michael Gude, Geschäftsführer / CEO
Der Hersteller/
The manufacturer

Gude Analog- und Digitalsysteme GmbH
Eintrachtstrasse 113
50668 Köln

erklärt hiermit, dass für folgende Produkte:
hereby declares that the following products:

**expert net control 2i2o (alle Versionen / all versions)**

**expert net control 2so (alle Versionen / all versions)**

mit den Bestimmungen der nachstehenden Richtlinien übereinstimmen/
are in accordance with the following directives

**Richtlinie 2002/96/EG** (WEEE - Waste Electrical and Electronic Equipment)

**Richtlinie 2002/95/EG** (RoHS - Restriction of certain Hazardous Substances)

**Richtlinie ElektroG** (Elektro- und Elektronikgerätegesetz)

Köln, 21.07.2009

Dr. Michael Gude, Geschäftsführer / CEO