Operation Quick Start Guide V1.0 for

# CONNECT-CONTROL-EUROPE
# CONNECT-CONTROL-WORLD

This page contains the **brief instructions** for the **CONNECT-CONTROL-devices**. Here you will find an overview of the various components on the front and back, basic hardware installation, initial login information, device specifications and general safety instructions. It is highly recommended that you familiarize yourself with the quick start guide before using the device. If you have a CONNECT-CONTROL-device, you will also find a printed version of the quick start guide in the device packaging or online on the device's product page.
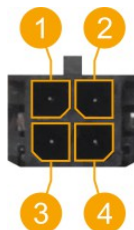
Connections:
Frontside:
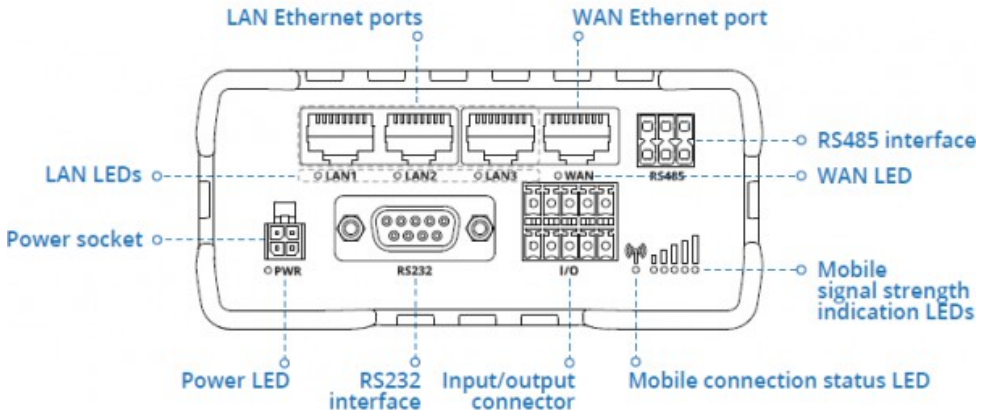
Backside:
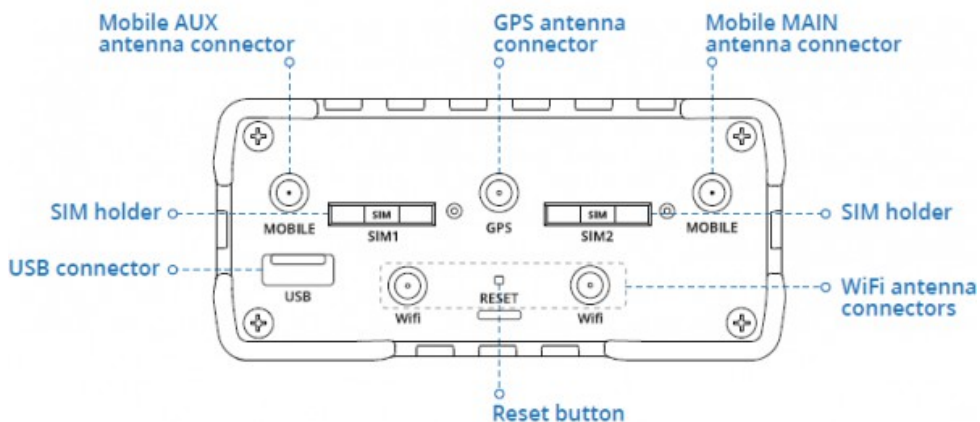
Power connector:

| No	Description	Wire-color
1	+9 – 30V DC	Red
2	0V	Black
3	E/A	Green
4	E/A	White

Hardware-installation

1.) Remove the SIM card slot tray(s) with the pin needle. Insert your SIM card(s) and push the tray(s) back into the router. Correct SIM card orientation can be seen in the figure below :


2.) Attach LTE, WiFi and GPS antennas
3.) Connect the power adapter to the power socket located on the front panel of the device. Then plug the other end of the power adapter into a power outlet.
4.) Connect to the CONNECT-CONTROL-device wirelessly or use an Ethernet cable.

Computer-configuration (Windows):

1.) Enable the wireless network connection (go to **Start → Control Panel → Network and Internet → Network and Sharing Center**. In the left panel click the **Change adapter settings** link. Right click on **Wireless Network Connection** and select **Enable**).
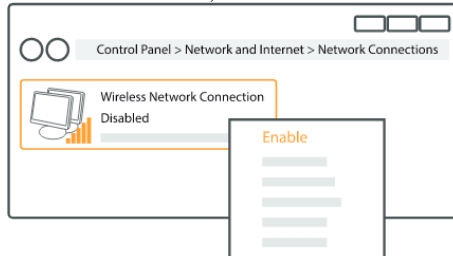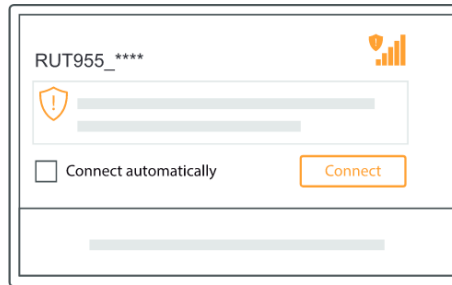
2.) Setup wireless network adapter on your computer (right click on **Wireless Network Connection** and select **Properties**. After that select **Internet Protocol Version 4 (TCP/IP)** and click **Properties**).
3.) Select **Obtain IP address** and **Obtain DNS server address automatically** if they are not selected. Click **OK**.
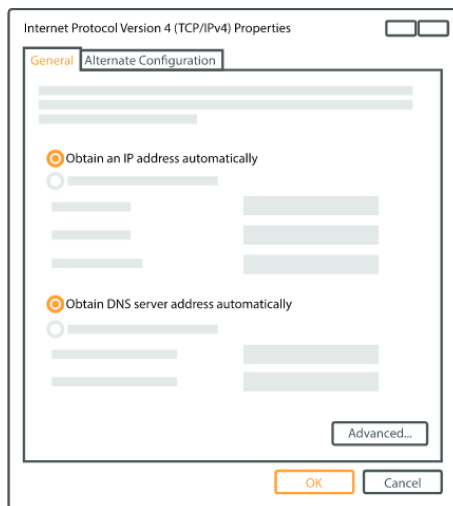
4.) Right click on **Wireless Network Connection** and select **Connect** to see available wireless networks.
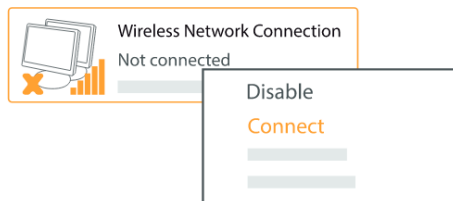
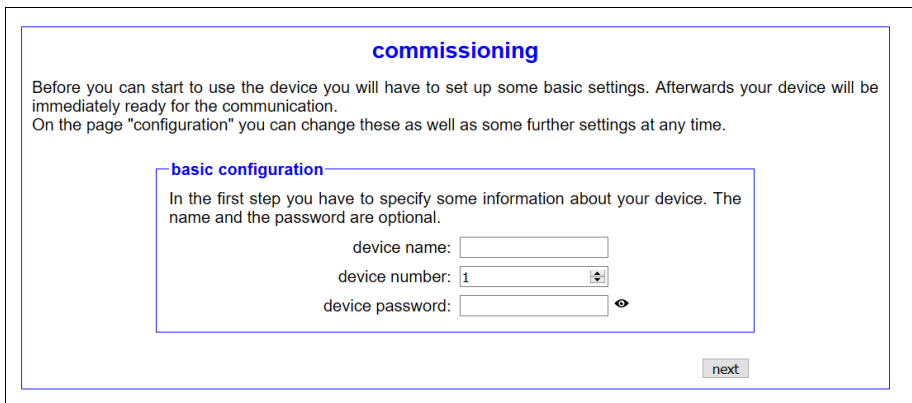5.) Choose the wireless network **RUT955_****** from the list and click **Connect**. Enter the WiFi password located on the device's label

First commissioning:
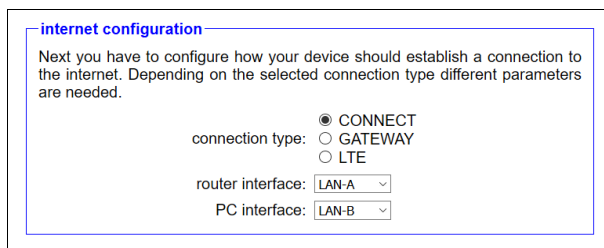
– Connect laptop to this WiFi network or LAN-cable in one of the 3 LAN-port and open with browser webserver with IP: http://192.168.1.1:

internet configuration:

– CONNECT (uses the internet connection of the connected PC)

– Gateway (uses own ip-address for internet connection)

internet configuration

Next you have to configure how your device should establish a connection to the internet. Depending on the selected connection type different parameters are needed.

connection type:
○ CONNECT
◉ GATEWAY
○ LTE

router interface: [LAN-A ⌄]

IP settings

IP configuration:
○ DHCP
◉ manually

IP address: [_____]

subnet mask: [_____]

internet access:
◉ gateway
○ proxy server

gateway address: [_____]

– LTE (uses LTE for the internet connection)

internet configuration

Next you have to configure how your device should establish a connection to the internet. Depending on the selected connection type different parameters are needed.

connection type:
○ CONNECT
○ GATEWAY
◉ LTE

LTE settings

PIN code: [_____] ☉

access point (APN): [internet]

Peculiarity: The APN "internet" is standard for most providers, but can be changed if necessary

peripheral configuration:
    –   CONNECT + GATEWAY

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peripheral configuration

Here you can select the interface and configure the adresses for the devices (e. g. from a PLC) who can communicate with the devices or the PC from the partner device. When using the connection type CONNECT this step is optional.

interface: [LAN-A ⌄]

devices

IP addresses: + [_____]

IP address ranges: + [_____] - [_____]

    –   LTE

---

peripheral configuration

Here you can select the interface and configure the adresses for the devices (e. g. from a PLC) who can communicate with the devices or the PC from the partner device. When using the connection type CONNECT this step is optional.

interface: [LAN-A ⌄]

IP settings

IP configuration: ○ DHCP
                        ● manually

DHCP server: ☑ enable

IP address: [_____]

subnet mask: [_____]

devices

IP addresses: + [_____]

IP address ranges: + [_____] - [_____]

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partner configuration:

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partner configuration

In the last step you can specify to which of your other devices the current device should establish a connection automatically. A connection can also be established if necessary via the page "overview".

connection: ☑ establish autoamtically

number: [_____ ⇅]

password: [_____] 👁

Explanation of parameters:

device name:	Device name (max. 15 characters)
device number:	Device number (1-65535) for assigning the connection **(no double device numbers allowed, please note !)**
router interface:	Interface of the CONNECT-CONTROL to the Internet router (depending on the Internet configuration, only sensible possible interfaces are displayed)
PC interface:	Interface of the CONNECT-CONTROL to the internet-compatible PC

Web interface (after first configuration):
Open the CONNECT web interface by clicking "http://192.168.1.1" in your browser with an active WIFI-connection. Or connect your PC to the in the first-configuration specified PC-interface using a LAN-cable and enter "CONNECT" in the address-line of the browser.

Click on the 3 stripes in the top left to open the device menu :
  – Overview
  – State
  – Configuration
  – Firmware update

Menu overview (overview of the device) :
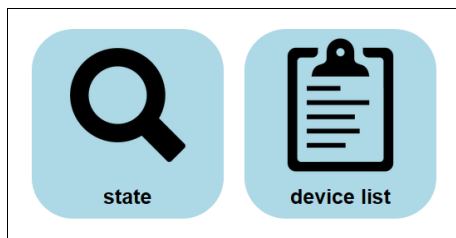
The menu is divided into status and device list. Clicking on the respective area opens a corresponding window. All other menus are shown in this menu frame .

The status display shows parameters of the connection, error messages and information about the connected devices :
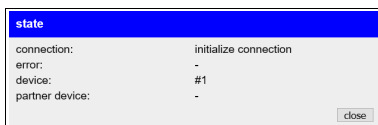
The Device list menu shows all devices available in your cloud. You can also establish and end connections to the other devices.

The status menu shows information about the IP / MAC addresses of the connection and information about the device:

```
┌ system ──────────────────────────────────────┐
│                    device type: CONNECT LTE   │
│                firmware version: 1.00         │
│                   serial number: -            │
│                     customer ID: 815          │
└──────────────────────────────────────────────┘

┌ device ──────────────────────────────────────┐
│                           name: -             │
│                         number: 1             │
└──────────────────────────────────────────────┘

┌ interfaces ──────────────────────────────────┐
│                connection type: none          │
└──────────────────────────────────────────────┘

┌ LTE interface ───────────────────────────────┐
│                    IMEI number: -             │
│                   ICCID number: -             │
│                      SIM state: -             │
│                  network state: -             │
│               network operator: -             │
│                   network type: -             │
│                         signal: -             │
│                       IP state: -             │
│                    MAC address: -             │
└──────────────────────────────────────────────┘

┌ LAN-A interface ─────────────────────────────┐
│                          state: not connected │
│                    MAC address: c4:93:00:0b:0c:78 │
└──────────────────────────────────────────────┘

┌ LAN-B interface ─────────────────────────────┐
│                          state: not connected │
│                    MAC address: c4:93:00:0b:0c:79 │
└──────────────────────────────────────────────┘

┌ WLAN interface ──────────────────────────────┐
│                          state: connected     │
│                    MAC address: c4:93:00:0b:0c:77 │
│                          BSSID: -             │
│                           SSID: CONNECT WiFi  │
│                        channel: 1             │
│                         signal: -             │
│                     IP address: 192.168.1.1   │
│                    subnet mask: 255.255.255.0 │
│                        gateway: -             │
│                     DNS server: -             │
└──────────────────────────────────────────────┘

┌ USB-LAN interface ───────────────────────────┐
│                          state: connected     │
│                    MAC address: 00:0e:c6:b2:ed:2f │
│                     IP address: 192.168.0.1   │
│                    subnet mask: 255.255.255.0 │
│                        gateway: -             │
│                     DNS server: -             │
└──────────────────────────────────────────────┘
```

IIn the Configuration menu, the expert configuration will be carried out differently from the quick commissioning of the device. For example, you can set the DHCP mode, set IP addresses, and carry out the basic configuration of the device again.

The status menu shows information about the IP / MAC addresses of the connection and information about the device:

```
┌ system ─────────────────────────────────────────┐
│                      device type: CONNECT LTE    │
│                  firmware version: 1.00          │
│                     serial number: -             │
│                       customer ID: 815           │
└─────────────────────────────────────────────────┘

┌ device ─────────────────────────────────────────┐
│                             name: -              │
│                           number: 1              │
└─────────────────────────────────────────────────┘

┌ interfaces ─────────────────────────────────────┐
│                  connection type: none           │
└─────────────────────────────────────────────────┘

┌ LTE interface ──────────────────────────────────┐
│                      IMEI number: -              │
│                     ICCID number: -              │
│                        SIM state: -              │
│                    network state: -              │
│                 network operator: -              │
│                     network type: -              │
│                           signal: -              │
│                         IP state: -              │
│                      MAC address: -              │
└─────────────────────────────────────────────────┘

┌ LAN-A interface ────────────────────────────────┐
│                            state: not connected  │
│                      MAC address: c4:93:00:0b:0c:78 │
└─────────────────────────────────────────────────┘

┌ LAN-B interface ────────────────────────────────┐
│                            state: not connected  │
│                      MAC address: c4:93:00:0b:0c:79 │
└─────────────────────────────────────────────────┘

┌ WLAN interface ─────────────────────────────────┐
│                            state: connected      │
│                      MAC address: c4:93:00:0b:0c:77 │
│                            BSSID: -              │
│                             SSID: CONNECT WiFi   │
│                          channel: 1              │
│                           signal: -              │
│                       IP address: 192.168.1.1    │
│                      subnet mask: 255.255.255.0  │
│                          gateway: -              │
│                       DNS server: -              │
└─────────────────────────────────────────────────┘

┌ USB-LAN interface ──────────────────────────────┐
│                            state: connected      │
│                      MAC address: 00:0e:c6:b2:ed:2f │
│                       IP address: 192.168.0.1    │
│                      subnet mask: 255.255.255.0  │
│                          gateway: -              │
│                       DNS server: -              │
└─────────────────────────────────────────────────┘
```

In the Configuration menu, the expert configuration will be carried out differently from the quick commissioning of the device. For example, you can set the DHCP mode, set IP addresses, and carry out the basic configuration of the device again.

In the Firmware Update menu, the firmware of the CONNECT-CONTROL-device is updated.

To do this, download the current firmware file to your PC from the product page. With Browse you select this file and accept it. The file name is displayed in the user interface for checking. By clicking Update firmware, the firmware file is loaded into the device and burned to the flash memory after a positive check. The device then restarts.

You can find more about the product and the current device manual on the product page of the CONNECT-CONTROL-device.

Under the web-address https://www.process-informatik.de are product specific documentations or software-driver/-tools available to download.
If you have questions or suggestions about the product, please don't hesitate to contact us.

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   + CONNECT-CONTROL Europe-LTE

Please make sure to update your drivers before using our products.

Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, a "normal" telephone connection is sufficient because the devices hangs up the line after occured message.

Data backup S5-PLC on SD-card
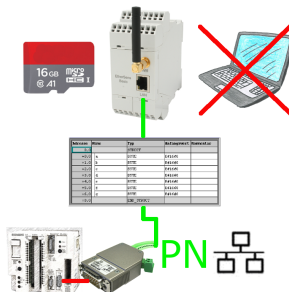
S5-PLC triggered DB-backup/-restore without additional PC via PG-socket and Ethernet on SD-card