Thanks for choosing the SmartGateways.nl Smart Meter Gateway!

The gateway can be connected to your smart meter in a few easy steps. Detailed manuals can be found on smartgateways.nl or Connectix.nl. If you encounter problems during installation you can investigate the logging (instructions in lower right corner).

Stap 1. Connecting the gateway to the smart meter

New meters from the Netherlands and Belgium and Sweden do not require an external power supply.

Older DSMR2 and DSMR4 meters (Netherlands only): before you can use the gateway, it must be powered by an adapter with a micro USB connection. This is not included. The gateway can then be connected to the smart meter via the RJ12 plug.

Note: If the gateway is connected to the meter without a separate power supply, the red light will illuminate but the gateway will not start. If the blue LED never lights up even though Wi-Fi is configured correctly, this is a sign that the gateway needs an external power supply.

Belgian meters first have to be activated. Contact Fluvius for activating the P1 port.

Step 3b. Find the ip address assigned by dhcp

The gateway will get an ip address from the dhcp server within your network. The mac address is important for this. The MAC address is on the sticker on the adapter. If you do not know how to find the ip address of the gateway at your internet router, you can use the Advanced IP Scanner program. You can download the program from the following link:
https://www.advanced-ip-scanner.com/
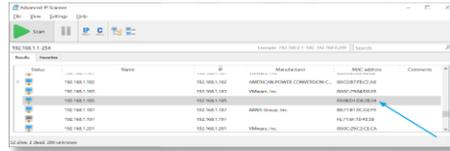
Note the IP address of the gateway. You need this to install the adapter. link it to your home automation package.

Restore to factory settings

1. Make sure the gateway is not connected via the meter or USB cable.
2. Now connect the gateway to an external USB power supply. **Don't press the reset button yet but wait for the blue led to begin flashing.**
3. The blue LED will flash 5 times. While flashing, press the reset button until the blue LED flashes 5 times quickly.
6. Release the button.
7. The gateway will now reset and will broadcast the SSID again after twenty seconds.
8. The gateway can be reconfigured by connecting to the SSID.

Step 2. Set up via the wifi portal

When the gateway is connected for the first time, it will broadcast the WiFi SSID "Smart Gateways P1 READER". Connect to this network, the password is "12345678" without quotes. Once connected, a control panel will automatically appear in your browser. If the control panel does not appear, surf to http://192.168.4.1

Now select "Configuration". A page will now appear with all available WiFi networks. This page is shown on the side ->

Select your WiFi network. This is then automatically filled in at SSID and SSID1. Enter the password. Entries with the & sign are not supported.

SSID1 and password1 are not being used. These settings will be ignored by the gateway.

If your gateway can't connect to the wifi for the first time, just try again and investigate the logging:
http://smartgateways.nl/support

When the gateway is connected you can browse to:
http://connectix_smartmeter.local:82 or
http://ip_adres_gateway:82 if the first link does not work

Username: admin
Password: smartgateways

Step 3a. Static ip adres or DHCP

At the bottom of the configuration portal is the IP address assignment. If you use dhcp, leave 0.0.0.0 everywhere. If you want to give the gateway a static IP address, enter the correct IP details. Re-enter SSID and Password when changing from dhcp to static ip address assignment.

Configuration

Network		
OUDE-MARKT	🔒	82%
XP-420B	🔒	68%
Alde Mert gast	🔒	42%
JKS	🔒	38%
privat8613vri	🔒	34%
Motown Steaks 'n Sushi Venlo	🔒	34%
PLEIN 7 Gasten	🔒	34%
PLEIN 7 Personeel	🔒	34%
PLEIN 7 Kassa	🔒	34%
MaaspoortEvents	🔒	24%
Catering	🔒	24%
De Maaspoort	🔒	24%
TheBurrow	🔒	24%
Ziggo	🔒	22%
Ziggo8675924	🔒	18%
Kolenstraat36sterk	🔒	12%
Vero&Sonny	🔒	10%

SSID
[SSID]

Password
[password]

SSID1
[SSID1]

Password
[password1]

SMART GATEWAYS

SMART METER GATEWAY

[Logout] [Change Password] [Refresh]

Gateway type	NL - DSMR4+5
Mac address	9C_9C_1F_C7_BB_68
Ip address	192.168.1.125
Startup time	2022-06-26T12:50:04Z
Firmware running	2022062601
Firmware available	2022062601
License activated	YES
Number of reboots	50
WiFi SSID	OUDE-MARKT
WiFi channel	11
WiFi signal strength	-41
WiFi reconnects	0
WiFi last connection error	
MQTT server	192.168.1.20
MQTT status	Connected
MQTT (re)connects	1
MQTT (re)connect time	2022-06-26T12:50:24Z
Telegrams received	192
Telegrams with errors	1

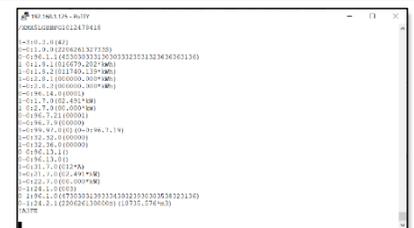[Change network and mqtt settings]
[Firmware menu]
[Reboot gateway]
[Reset to factory default]

REST-API

Check for data from the smart meter:

You can use Advanced IP Scanner to check if the gateway receives data From the smart meter.

Within Advanced IP Scanner:
Right click on the gateway and select Tools and then Telnet. A new window will open and live data will be shown from the meter. It will look like the example illustrated on the right.

Stap 4. Home Assistant Install

Scan QR code

https://www.connectix.nl/connecting-smart-electricity-meter-sweden-home-assistant/

Stap 4. Domoticz Install

Scan QR code

https://smartgateways.nl/slimme-meter-uitlezen-met-domoticz/

Stap 4. Homey App Install

Scan QR code

https://www.connectix.nl/slimme-meter-p1-dsmr-uitlezen-met-homey/

Led notifications

The red LED lights up when the gateway is supplied with power.
The blue LED can light up or flash in different ways.
BLUE LED – OFF: No WiFi connection. Connect to the SSID "Smart Gateways P1 READER" and configure the gateway or reset the gateway to factory settings and re-enter the wifi configuration.
BLUE LED – ALWAYS ON: the gateway is connected to the WiFi network but has not yet received any data from the smart meter.
BLUE LED – FLASHING SLOWLY: the gateway is receiving data from the meter (normal situation)
BLUE LED – FLASHING FAST: A firmware update is available. Briefly press the button on the gateway and wait for the gateway to install the update. This may take 2 minutes. The gateway will reboot and start flashing slowly again. If the blue LED does not turn on, reconfigure the gateway. If the immediately starts flashing again, the update has not been downloaded completely, try again until the gateway has started up normally again. Note: certain firewalls block the download, if this is the case, try installing the firmware update via a different WiFi network. If there is an update the mqtt topic changes to dsmr/smart_gateways/update_available = true. If desired, a notification can be made about this.

MQTT

In addition to telnet (Step 4 Home Assistant or Step 4 Domoticz), you can also use MQTT. To do this, enter the MQTT data of your broker on the configuration portal. The port number is by default 1883. You can find the mqtt installation guide on https://smartgateways.nl/support.

By default, an update is sent to the MQTT broker every 10 seconds, even if your meter sends a telegram every second (DSMR version 5). If you want to adjust this, enter in seconds at **INTERVAL**. The **PREFIX** is for advanced users. Do not enter anything here if you are not using it. By entering a prefix, Home Assistant or Domoticz may no longer work. The max length for all the mqtt fields is 40 characters.

Logging and troubleshooting the gateway

Investigate the log first if problems occur.
Scan this QR code for instructions - https://smartgateways.nl/logging-van-de-gateway/

If the gateway is connected to the meter it will detect the meter type and download the right firmware if necessary. Steps: 1. connect the gateway to your wifi network, 2. (re)connect the gateway to the smart meter, 3. Let the gateway download detect and download the right firmware. This can take an hour to complete. All values will be "0" in the meantime. If mqtt / homey or the rest-api show no data, contact smartgateways.nl/contact for support.