

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).

Step 1. Connecting the gateway to the smart meter

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

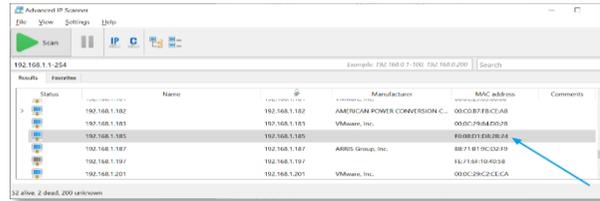
Older DSMR2 and DSMR4 meters (Netherlands only): before you can use the gateway, it must be powered by an adapter with a micro USB connection. This is not included. The gateway can then be connected to the smart meter via the RJ12 plug.

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

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.
4. Release the button.
5. The gateway will now reset and will broadcast the SSID again after twenty seconds.
6. 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.

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

Sometimes the gateway won't connect to your network. If this is the case, just repeat this step till the gateway connects successfully. If you encounter problems while connecting to wifi, try to investigate the logging to find the problem. Hidden SSID's are not supported yet.

Configuration

OUDE-MARKT	82%
XP-420B	68%
Aide Mert gast	42%
JKS	38%
privat0613vri	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	<input type="text"/>
SSID1	<input type="text"/>
Password	<input type="password"/>
Password1	<input type="password"/>

MQTT SERVER	<input type="text"/>
MQTT SERVER PORT	<input type="text"/>
MQTT USERNAME	<input type="text"/>
MQTT KEY	<input type="text"/>
MQTT INTERVAL	<input type="text"/>
MQTT PREFIX	<input type="text"/>
BLYNK TOKEN	<input type="text"/>

Static IP	<input type="text"/>
Gateway IP	<input type="text"/>
Subnet	<input type="text"/>
DNS1 IP	<input type="text"/>
DNS2 IP	<input type="text"/>

Save

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.

MQTT

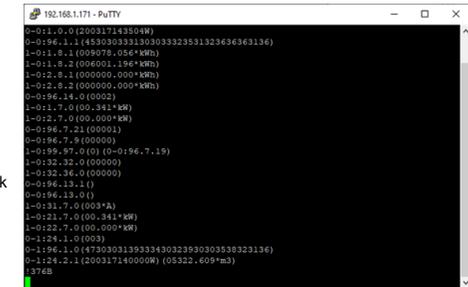
In addition to telnet (Step 4 Home Assistant or Step 4 Domoticz), you can also use MQTT. To do this, enter the MQTT data of your broker on the configuration portal. The port number is by default 1883. You can find the mqtt installation guide on <https://smartgateways.nl/support>.

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.

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.



Step 4. Home Assistant Install

Scan QR code



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

Step 4. Domoticz Install

Scan QR code



<https://smartgateways.nl/slimme-meter-uitelezen-met-domoticz/>

Step 4. Homey App Install

Scan QR code



<https://www.connectix.nl/slimme-meter-p1-dsmr-uitelezen-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.

Logging the gateway

Investigate the log first if problems occur.

Scan this QR code for instructions - <https://smartgateways.nl/logging-van-de-gateway/>

