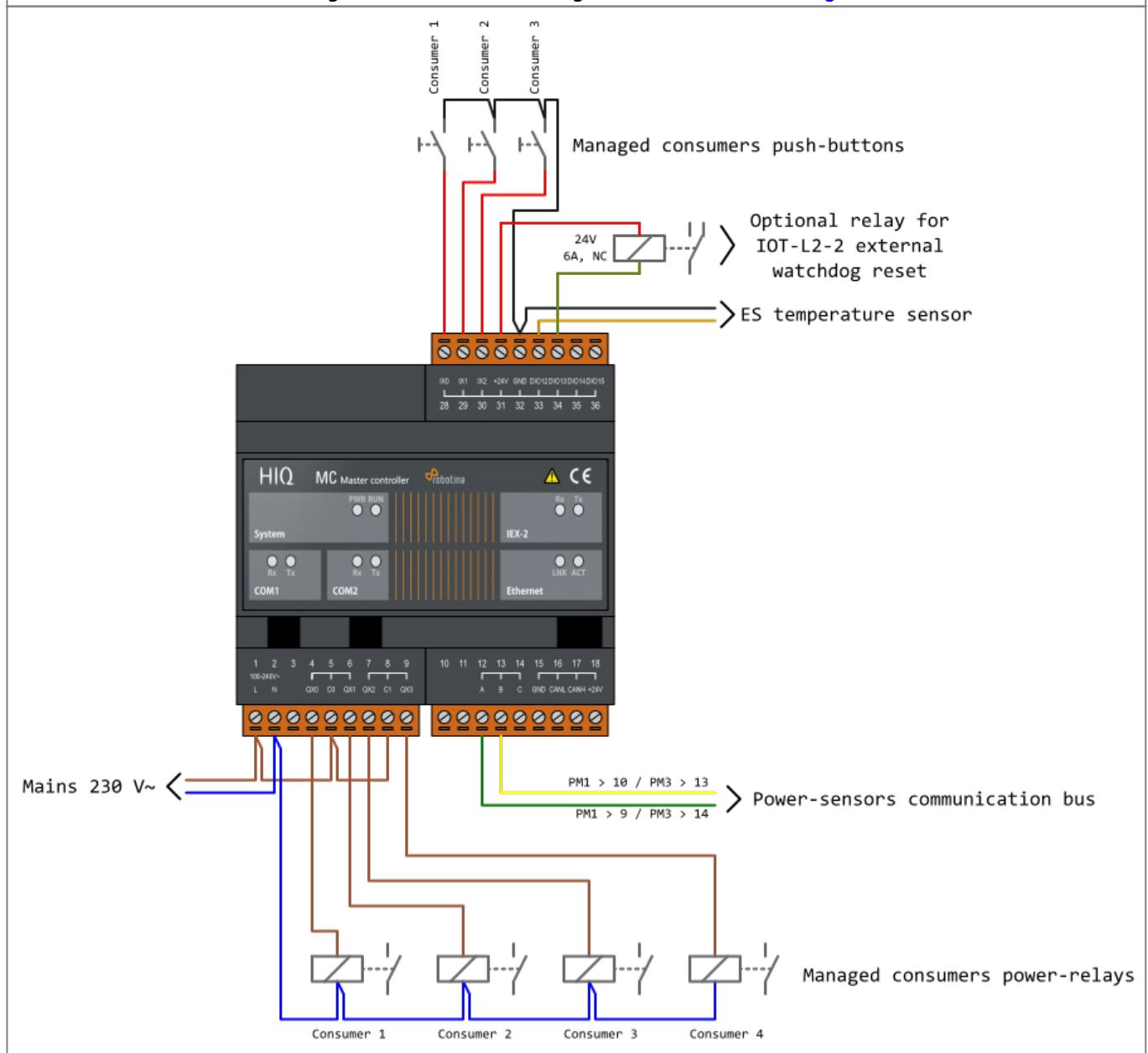


HEMS v1.2.x wiring

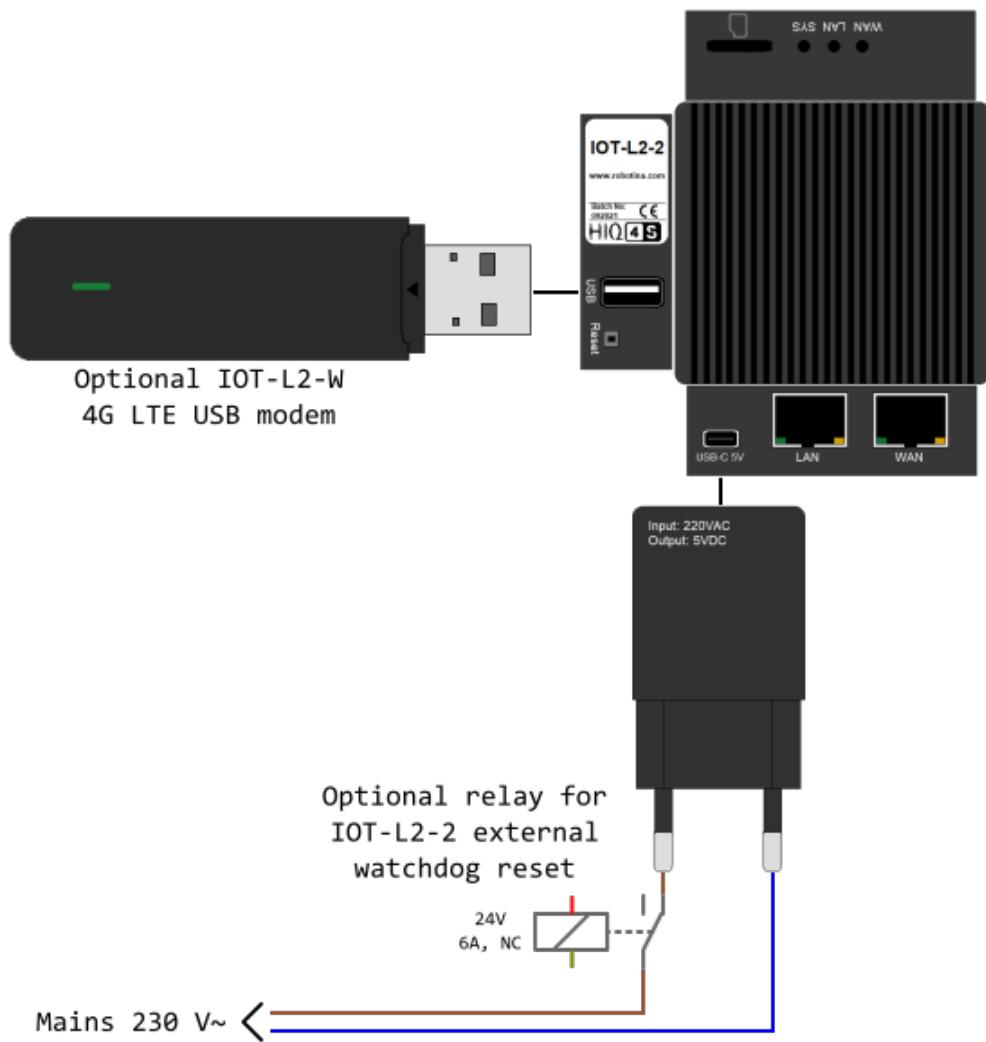
MC-230

Wiring of default configuration.

NOTE: several different configurations can be configured with [HEMS Configurator](#).



IOT-L2-2



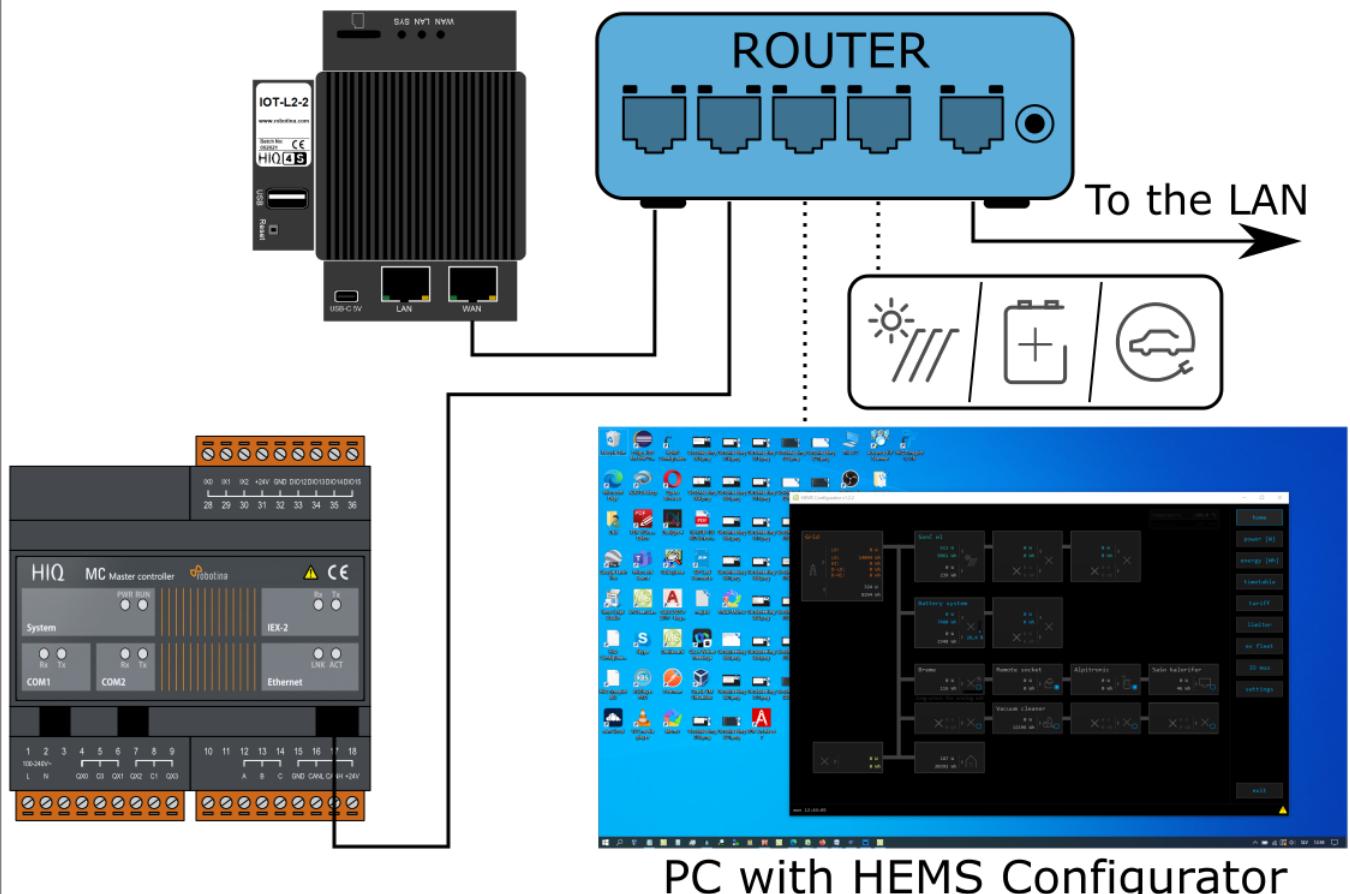
Network (LAN or LTE 4G modem) → MC-230 and IOT-L2-2

Optionally:

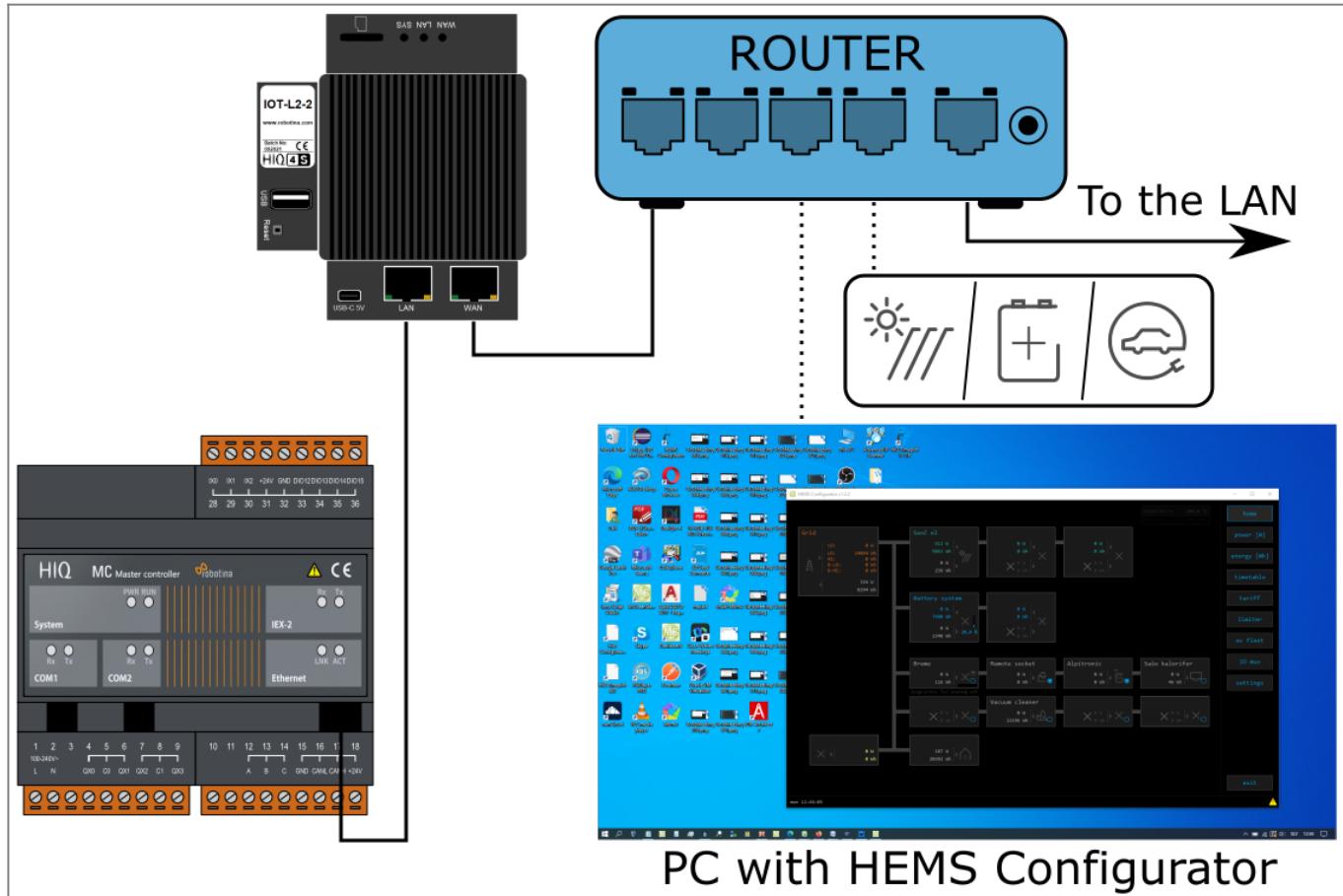
- PC with HEMS configurator
- PV inverter
- Hybrid inverter (battery storage system)
- EV charger

NOTE: When you change network configuration, MC-230 and IOT-L2-2 must be reset.

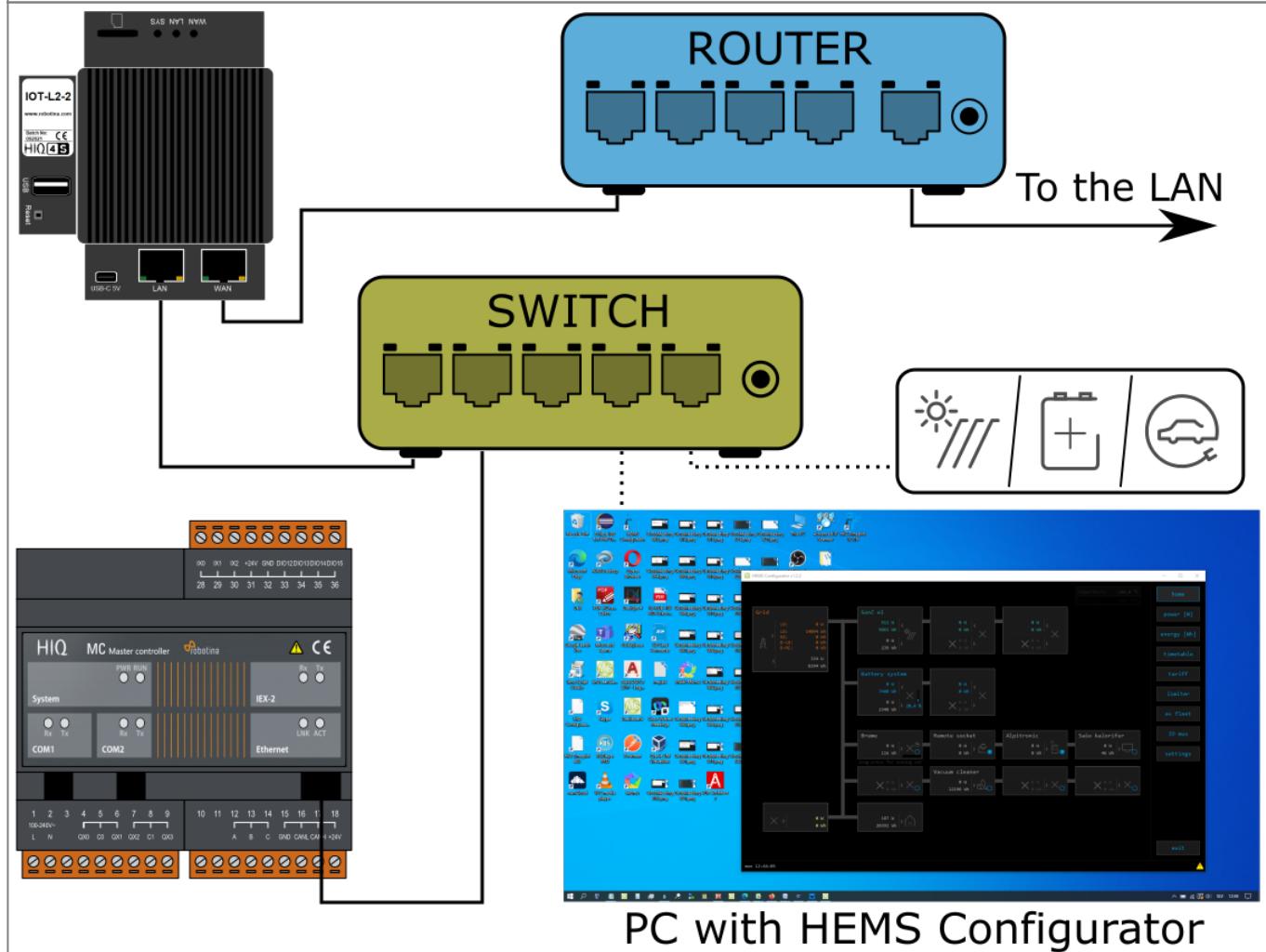
Default connection to the LAN network:



Optional LAN connections:



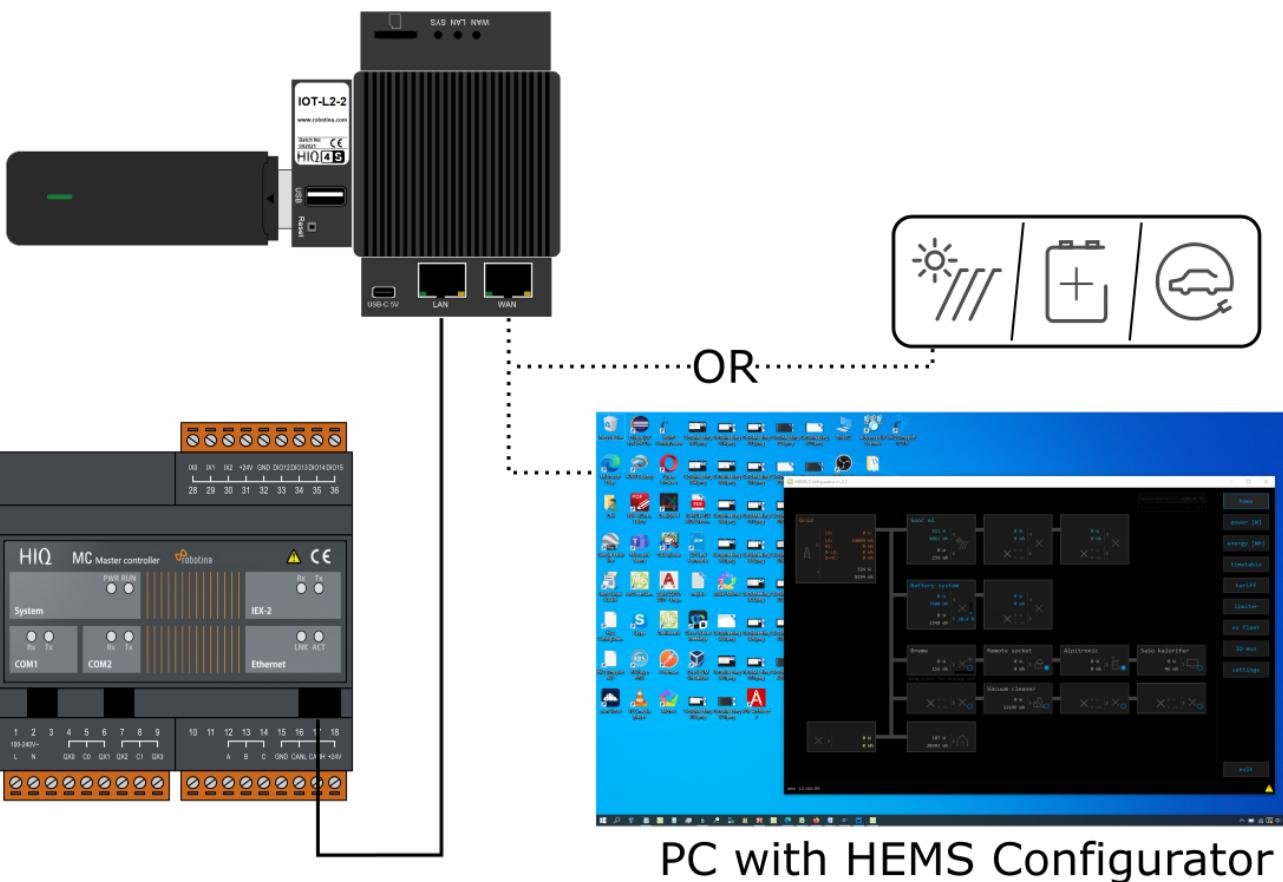
PC with HEMS Configurator



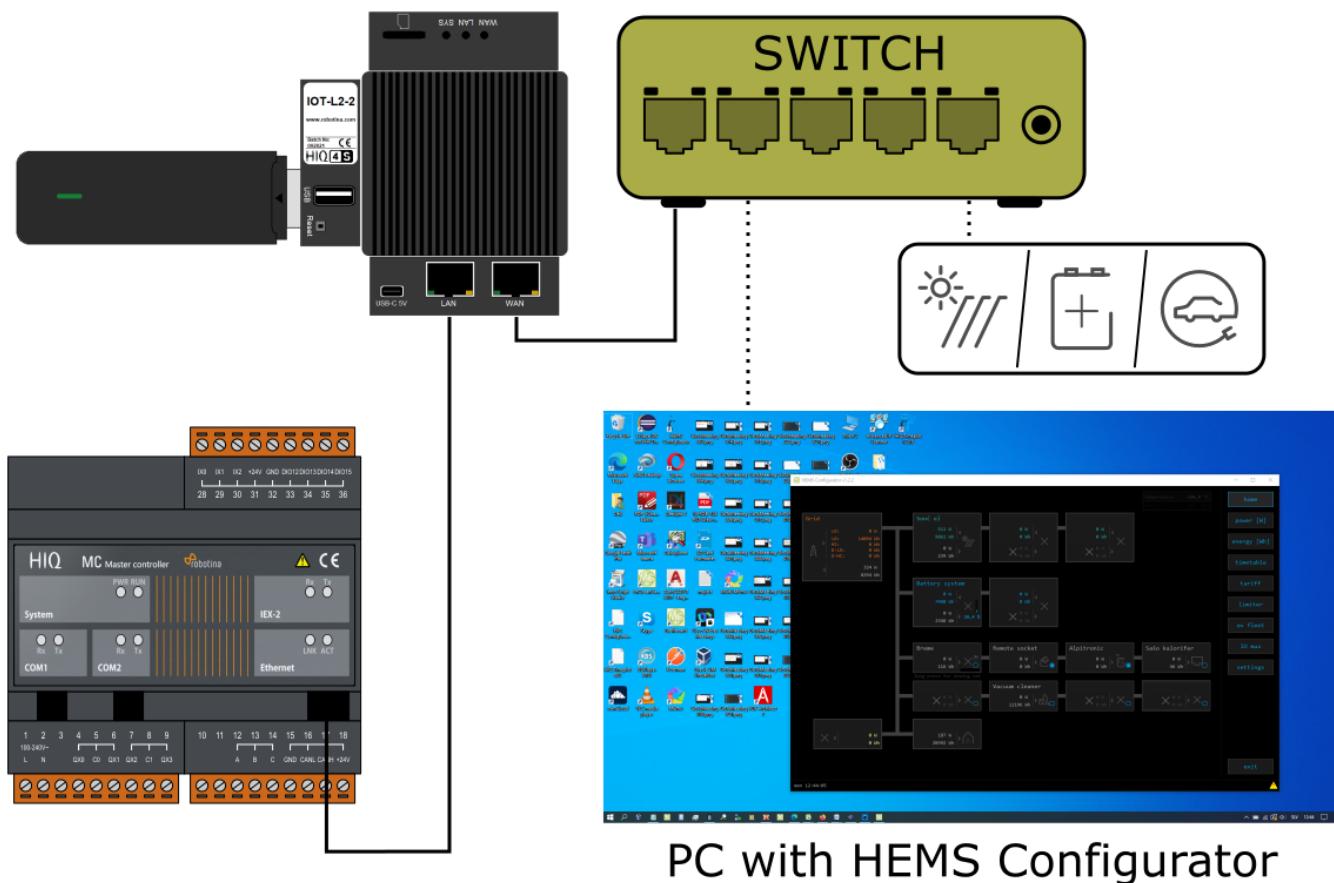
PC with HEMS Configurator

Default connection via LTE 4G modem:

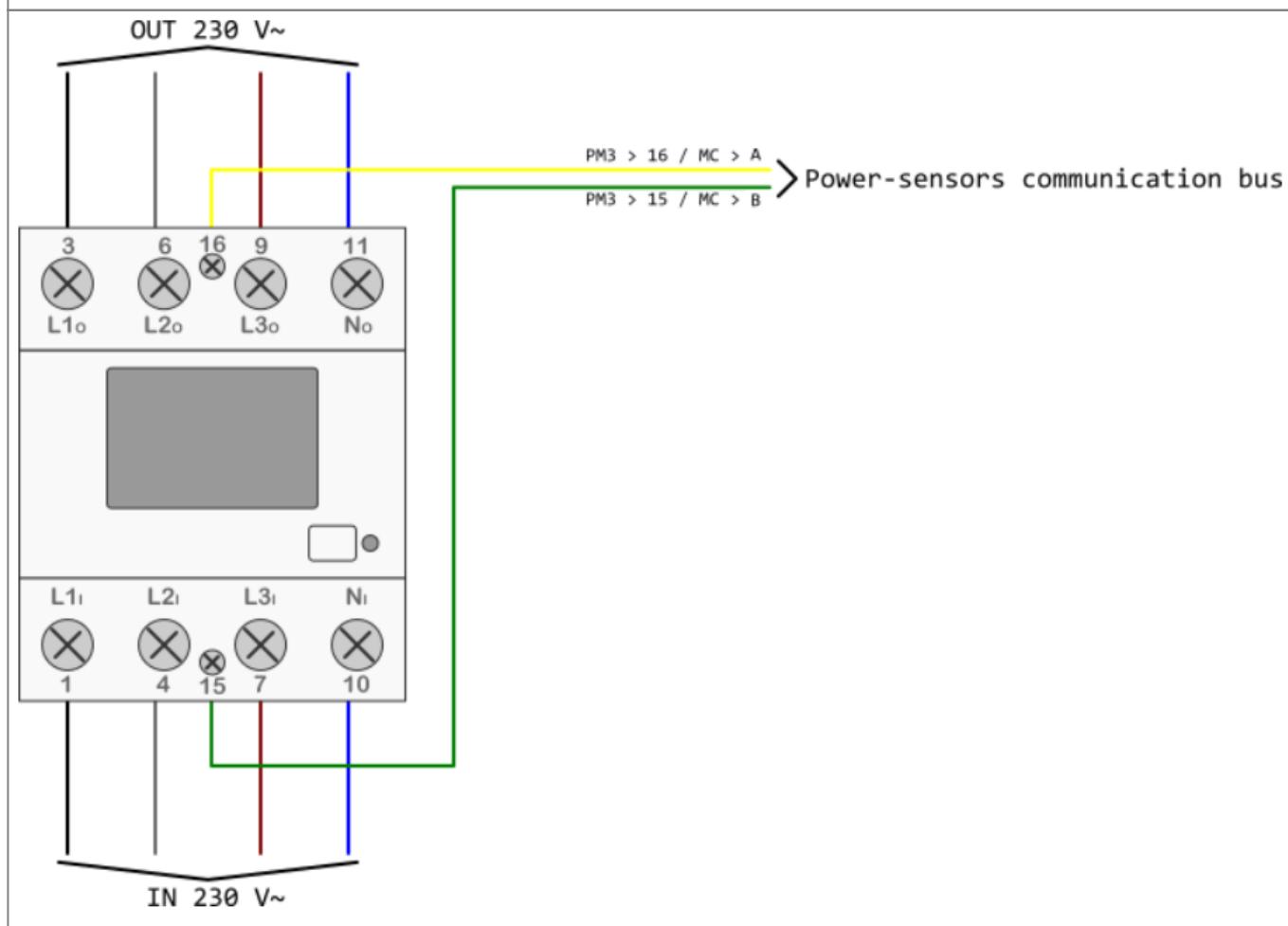
NOTE: All connected devices will have internet access via LTE modem which can result in high costs on your LTE account.



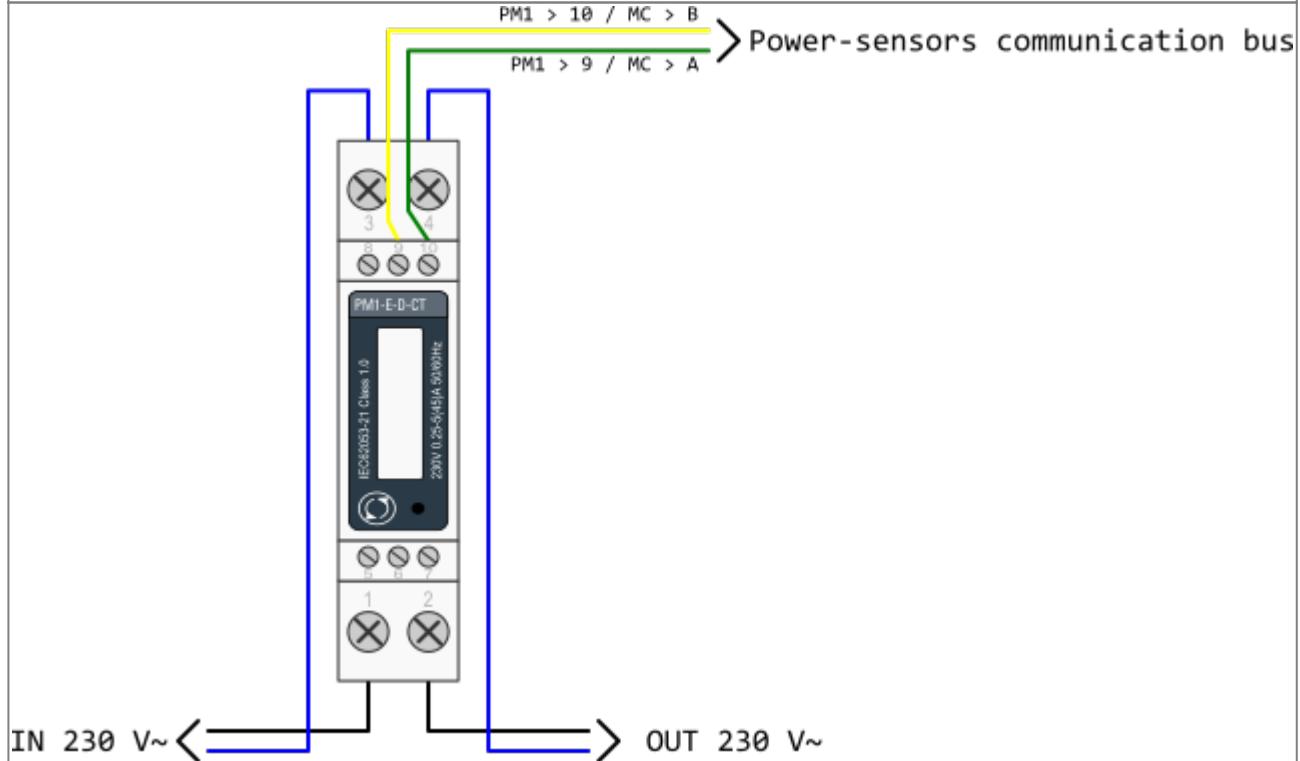
Optional LTE 4G modem connection:



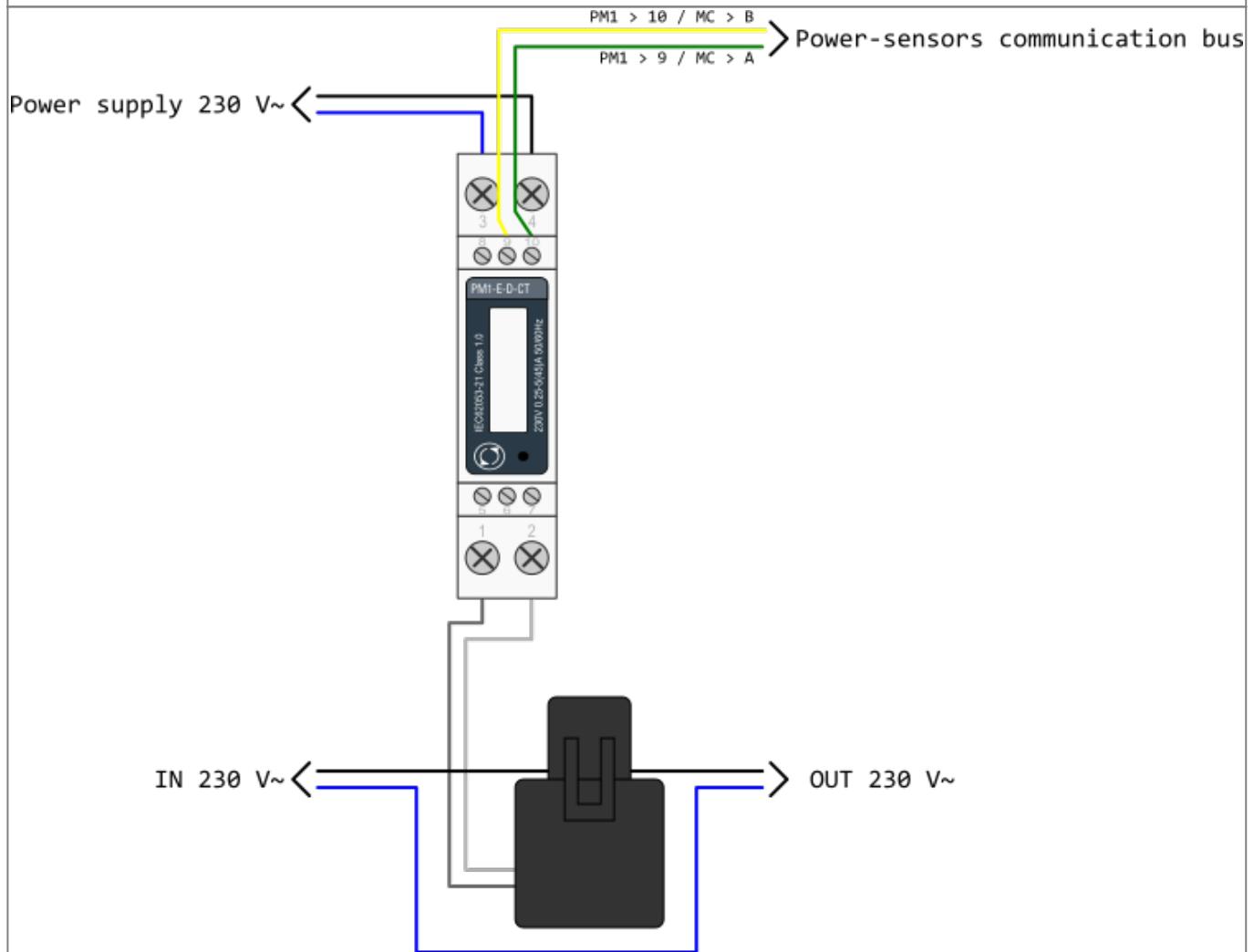
NOTE: Specific network requirements, i.e. static IP address can be configured on the cloud service.
Please contact [support](#).

PM3-I-D

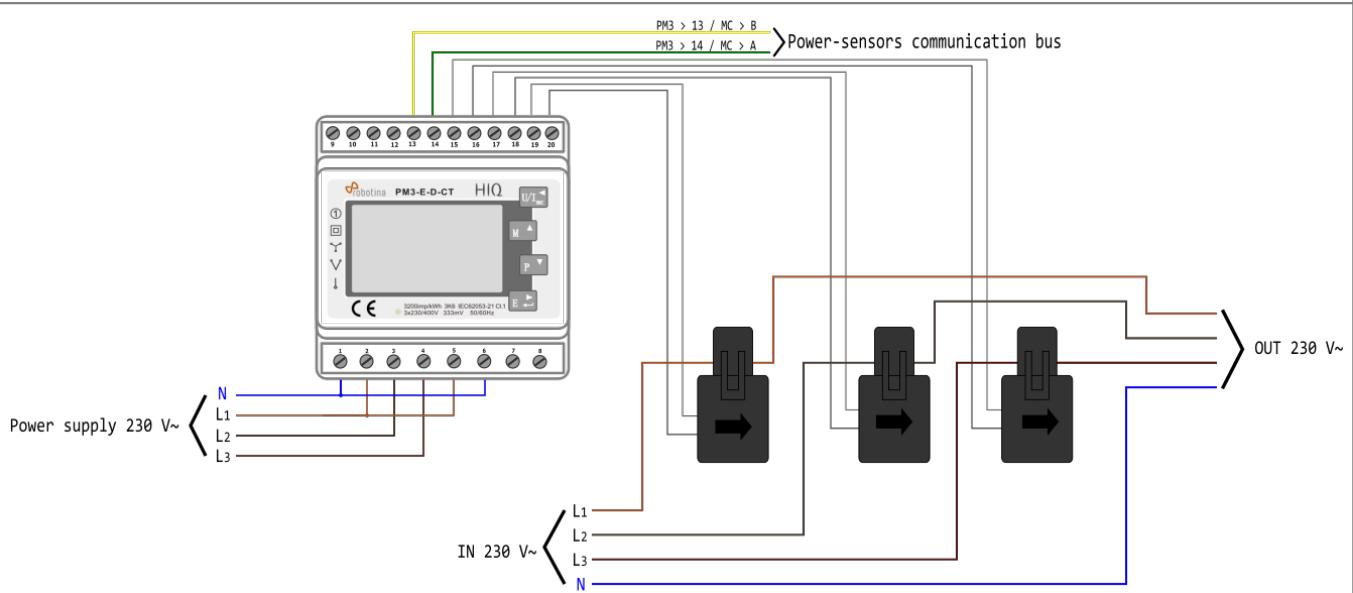
< 700px >

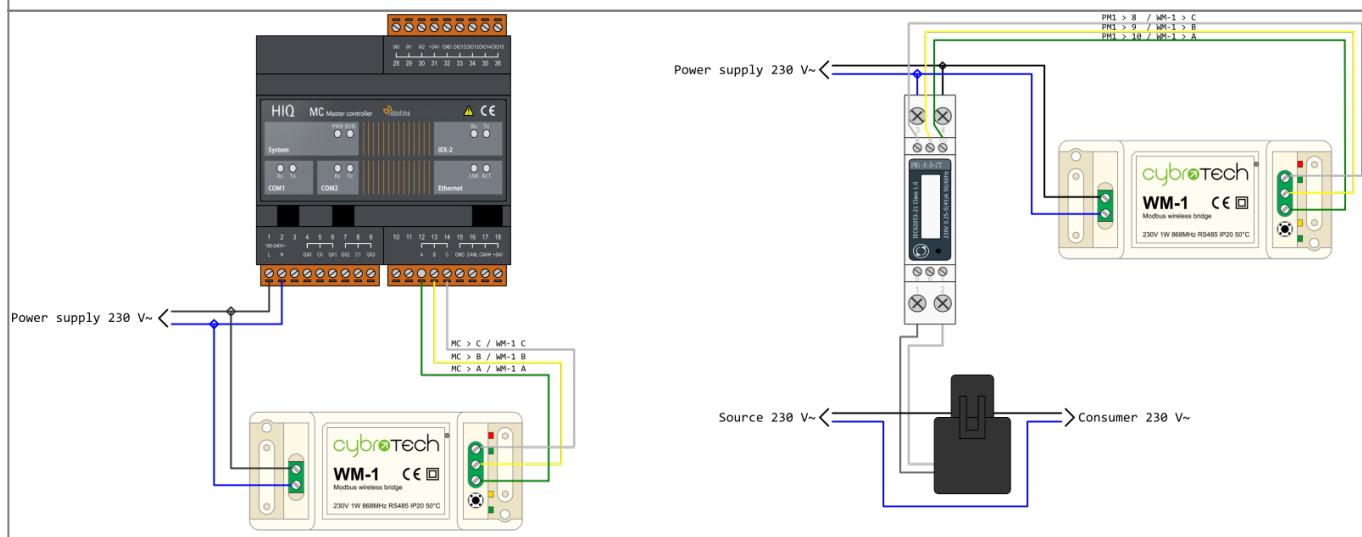
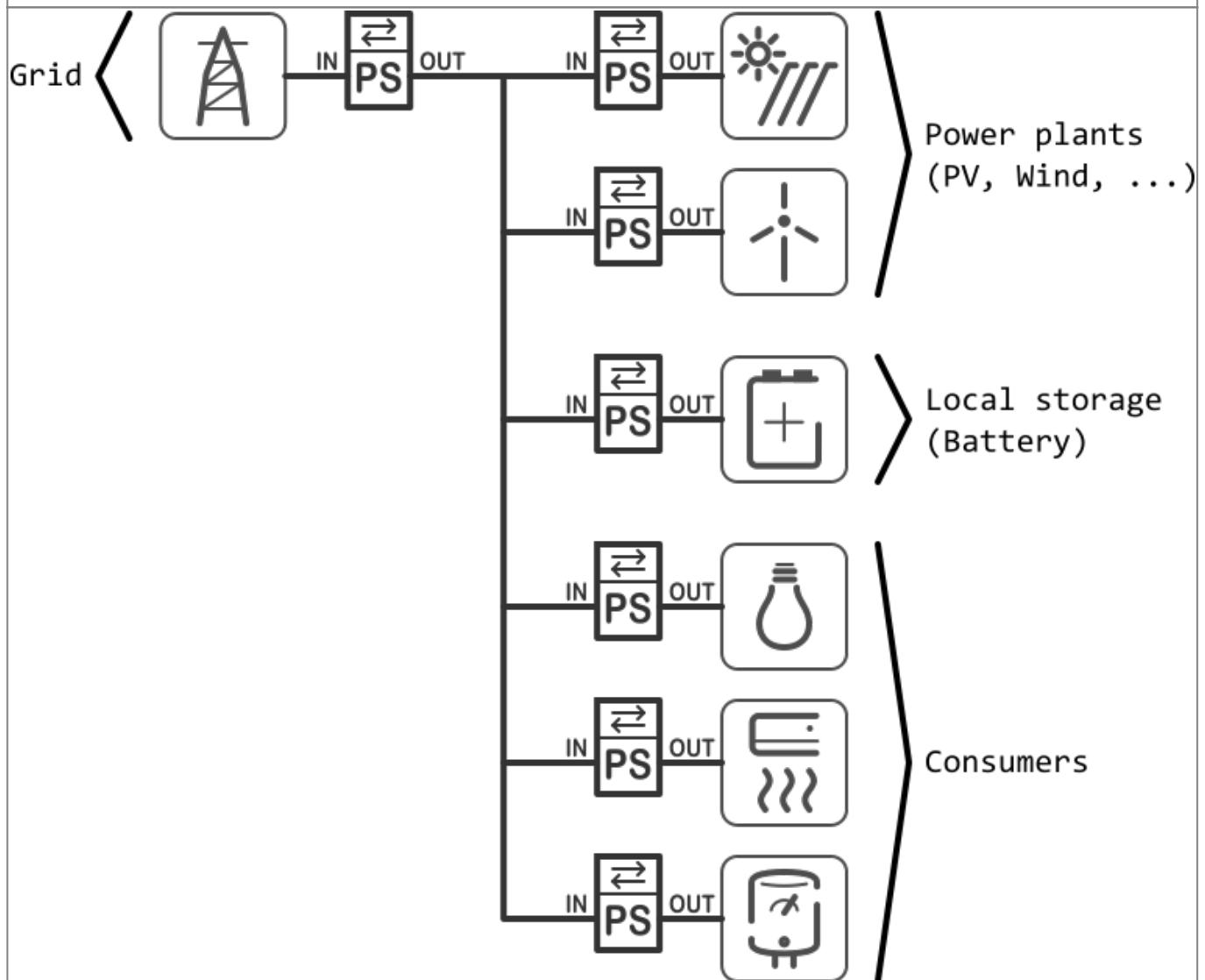
PM1-E-D

PM1-E-D-CT



PM3-E-D-CT



WM-1**Power-sensors orientation**

Control consumer by external signal

Connect external source to control device, e.g. thermostat signal on IX0 to control temperature by enabling/disabling connected device on QX0.

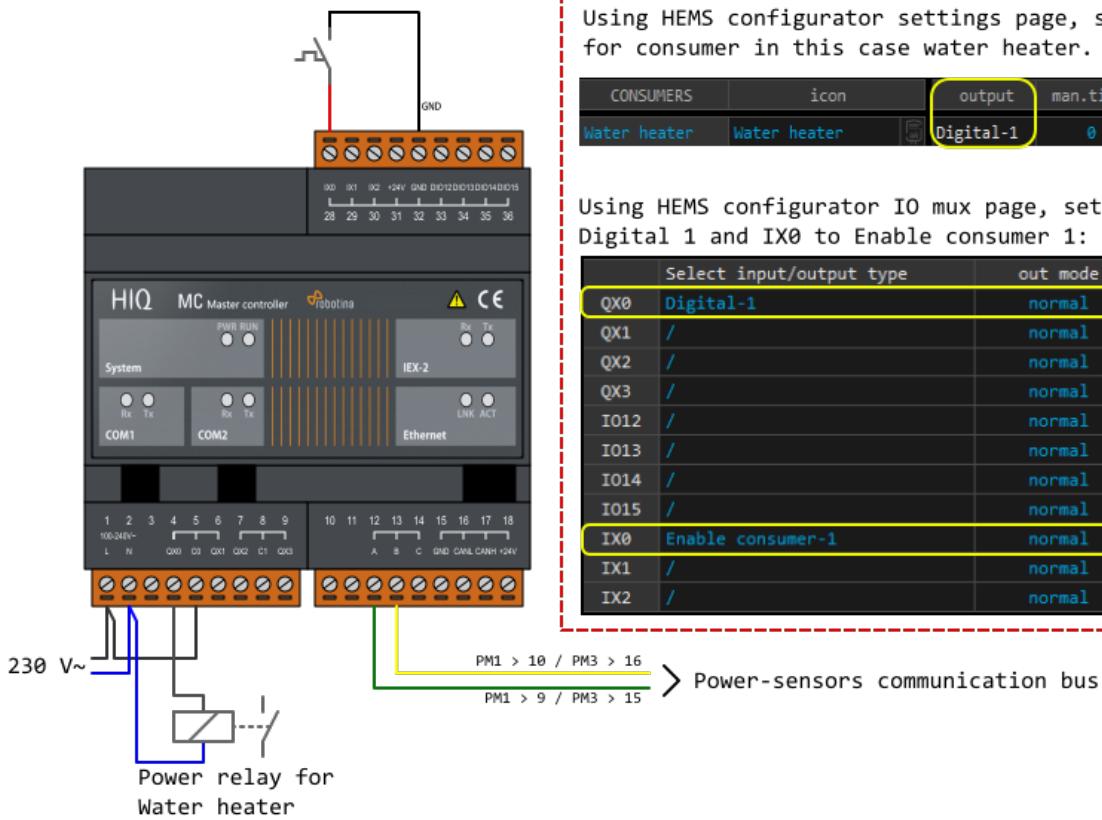
HEMS configurator

Using HEMS configurator settings page, set Digital 1 for consumer in this case water heater.

CONSUMERS	icon	output	man.time	P nominal
Water heater	Water heater	Digital-1	0 min	2500 W

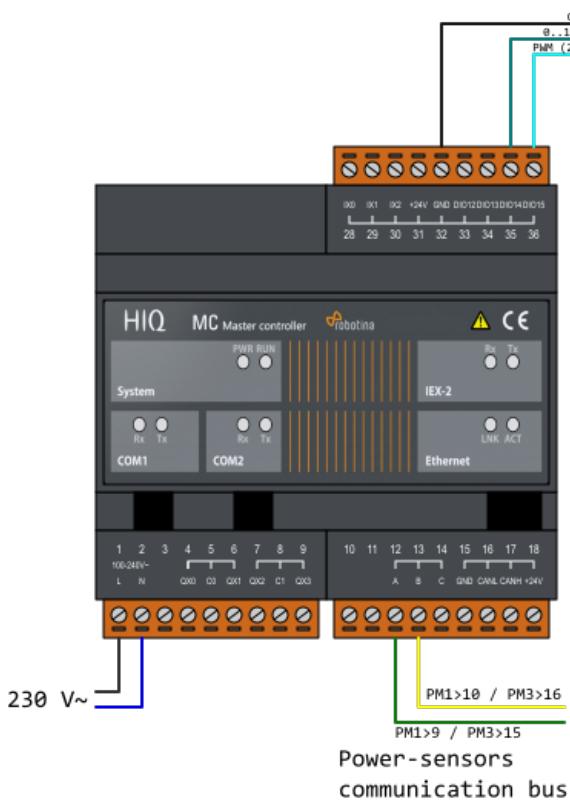
Using HEMS configurator IO mux page, set QX0 to Digital 1 and IX0 to Enable consumer 1:

Select input/output type	out mode
QX0 Digital-1	normal
QX1 /	normal
QX2 /	normal
QX3 /	normal
IO12 /	normal
IO13 /	normal
IO14 /	normal
IO15 /	normal
IX0 Enable consumer-1	normal
IX1 /	normal
IX2 /	normal



Set analog for consumer 1

Connect analog device to IO14 for analog signal 0-10V or to IO15 for PWM signal (f=1kHz). Analog load is possible to set in configurator for consumer 1 only and reserved outputs are on IO14 & IO15.



HEMS configurator

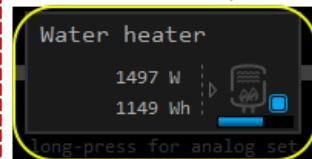
Using HEMS configurator settings page, set Analog for consumer in this case water heater.

CONSUMERS	icon	output	man.time	P nominal
Water heater	Water heater	Analog	0 min	2500 W

Using HEMS configurator IO mux page, set IO14 to Analog output 0-10V and IO15 to PWM output

Select input/output type	out mode
QX0	/ normal
QX1	Digital-2 normal
QX2	Digital-3 normal
QX3	/ normal
IO12	Digital-6 normal
IO13	/ normal
IO14	Analog output 0-10V normal
IO15	PWM output normal
IX0	Toggle consumer-1 normal
IX1	Toggle consumer-2 normal
IX2	Toggle consumer-3 normal

On home page, set consumer 1 (water heater) to desired % of power.



NOTE: analog signal is available for consumer 1 on IO14 and IO15 only.

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