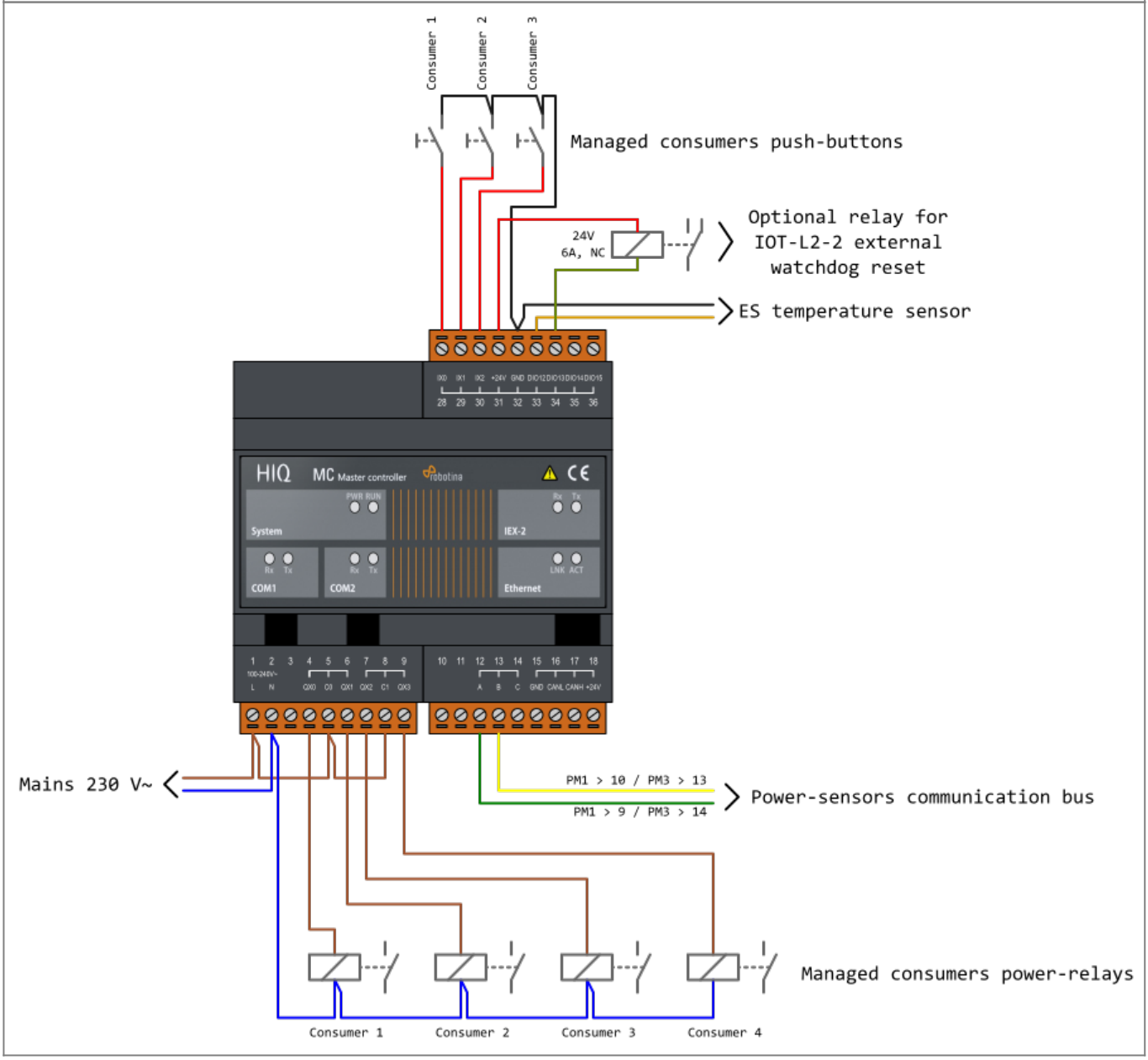
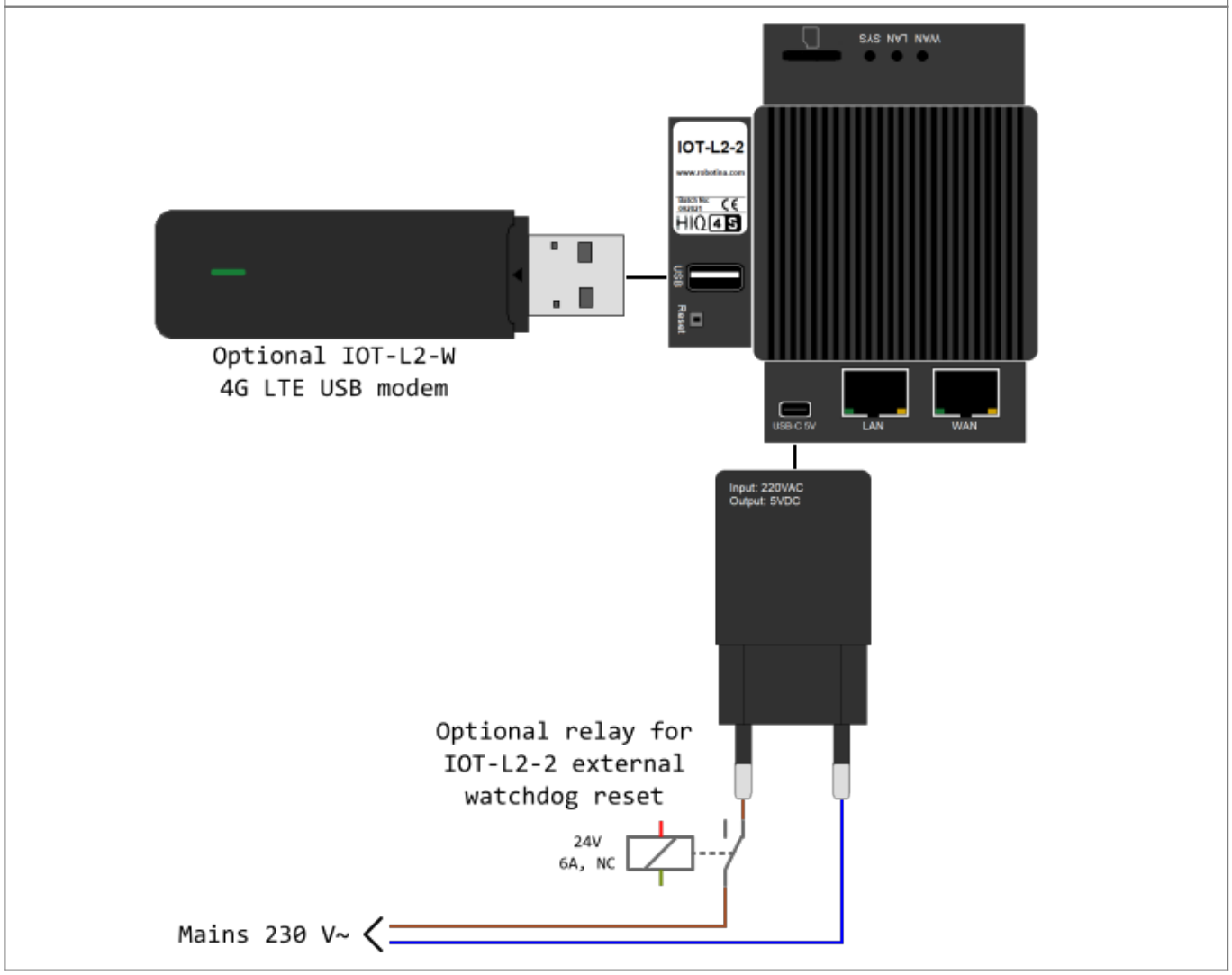
HEMS v1.2.x wiring

MC-230
Wiring of default configuration. NOTE: several different configurations can be configured with HEMS Configurator.

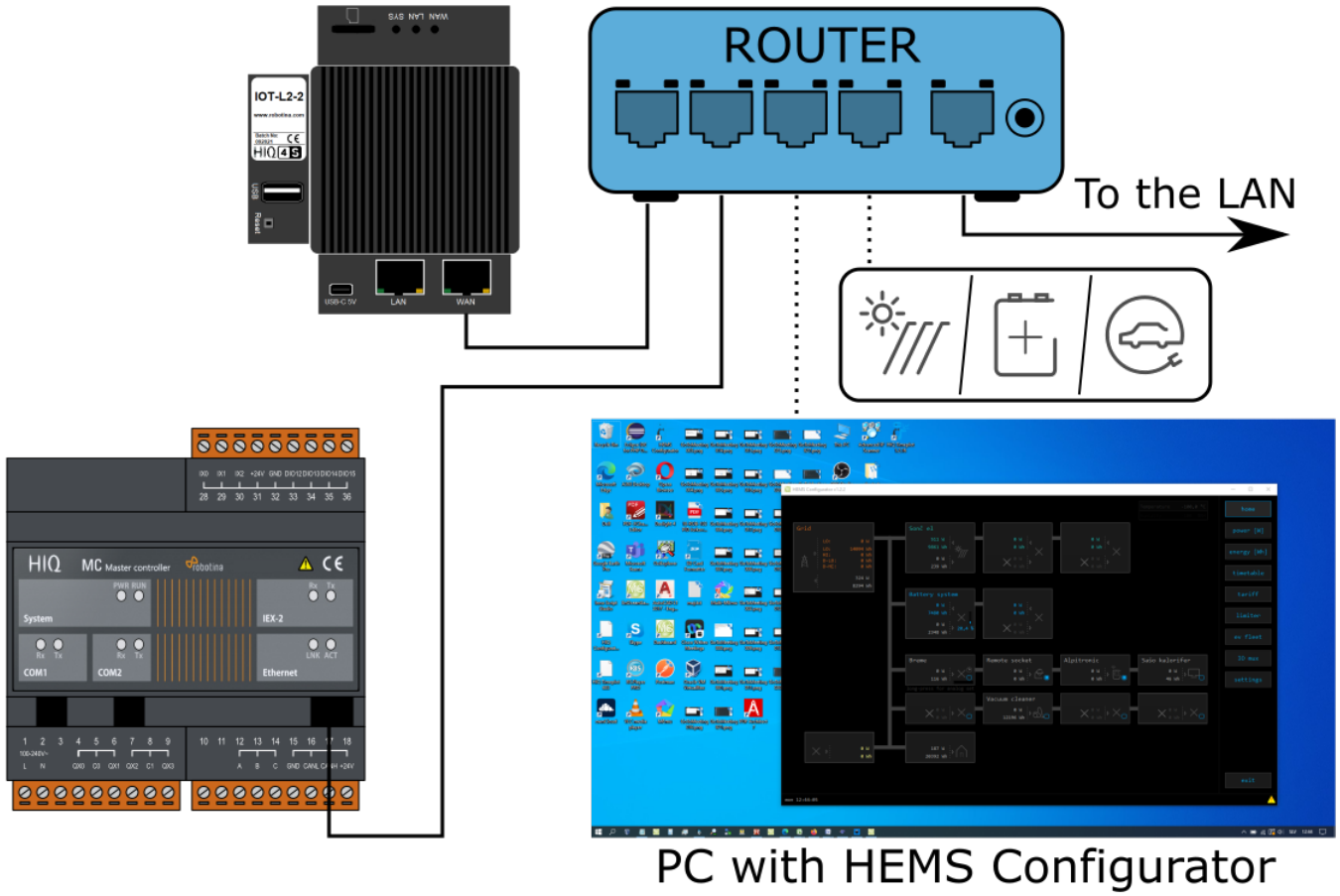


IOT-L2-2

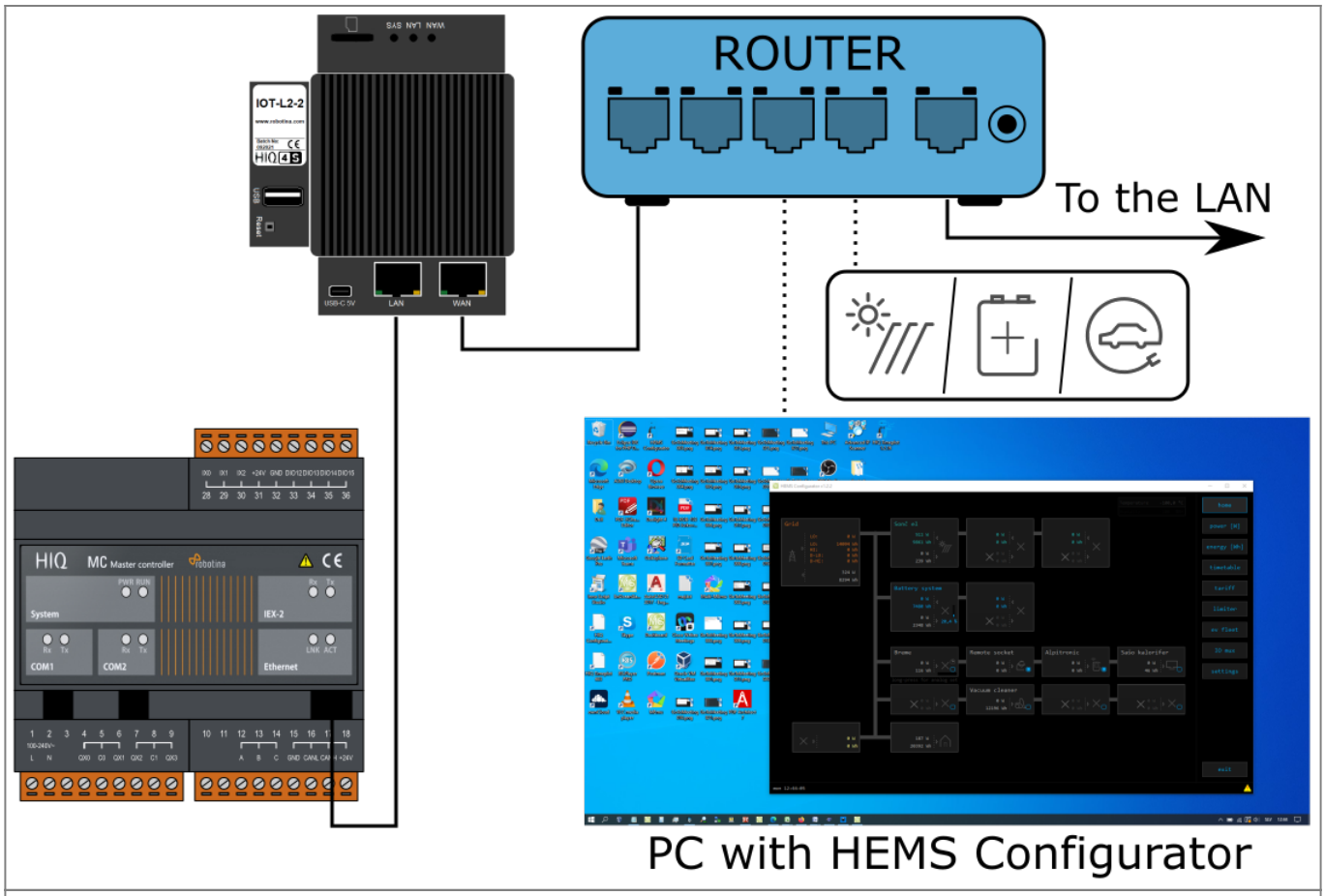

IOT-L2-2
Optional IOT-L2-W
4G LTE USB modem
USB
Reset
USB-C 5V
LAN
WAN
Input: 220VAC
Output: 5VDC
Optional relay for
IOT-L2-2 external
watchdog reset
24V
6A, NC
Mains 230 V~

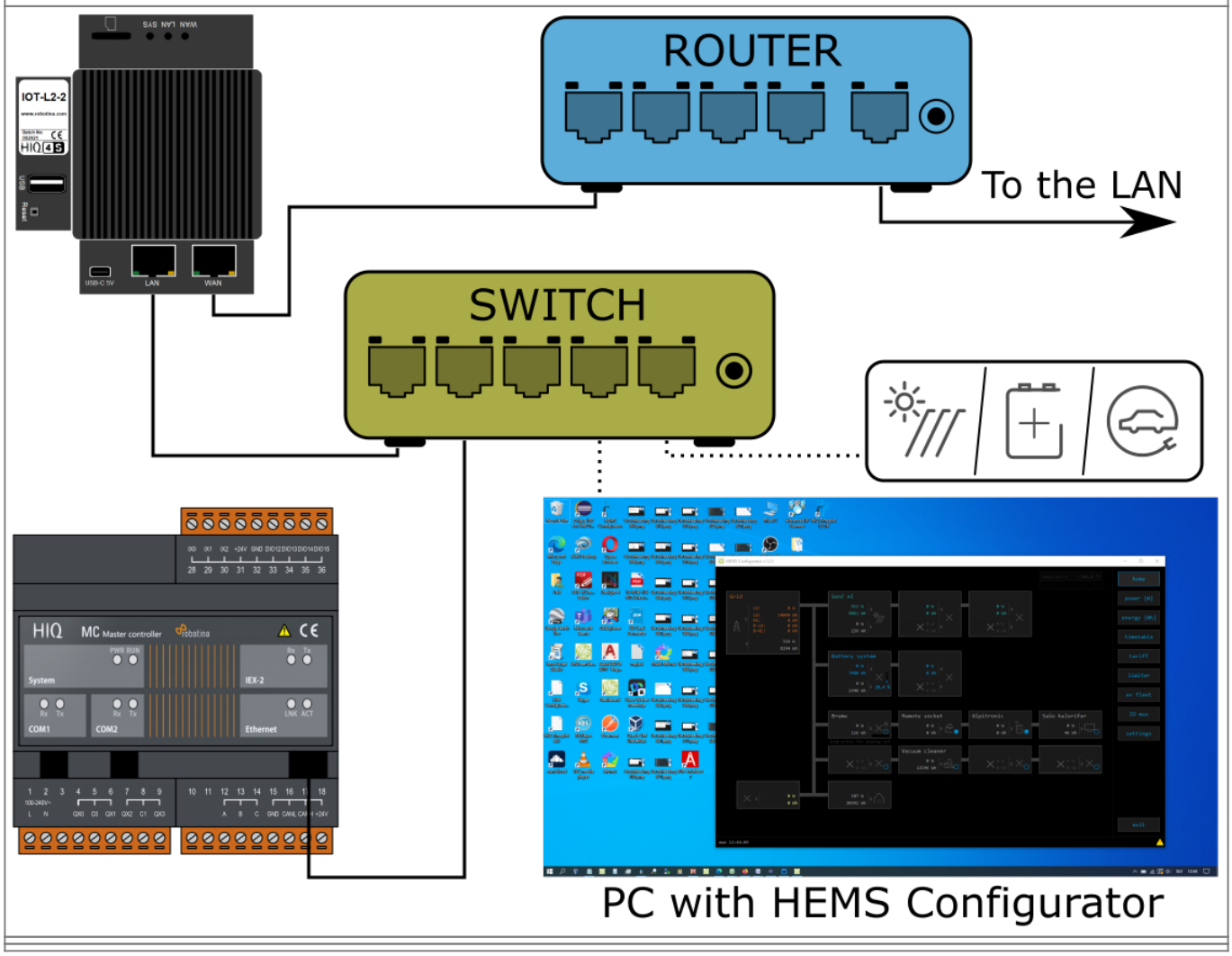
Network (LAN or LTE 4G modem) → MC-230 and IOT-L2-2
Optionally:
- PC with HEMS configurator
- PV inverter
- Hybrid inverter (battery storage system)
- EV charger

Default connection to the LAN:



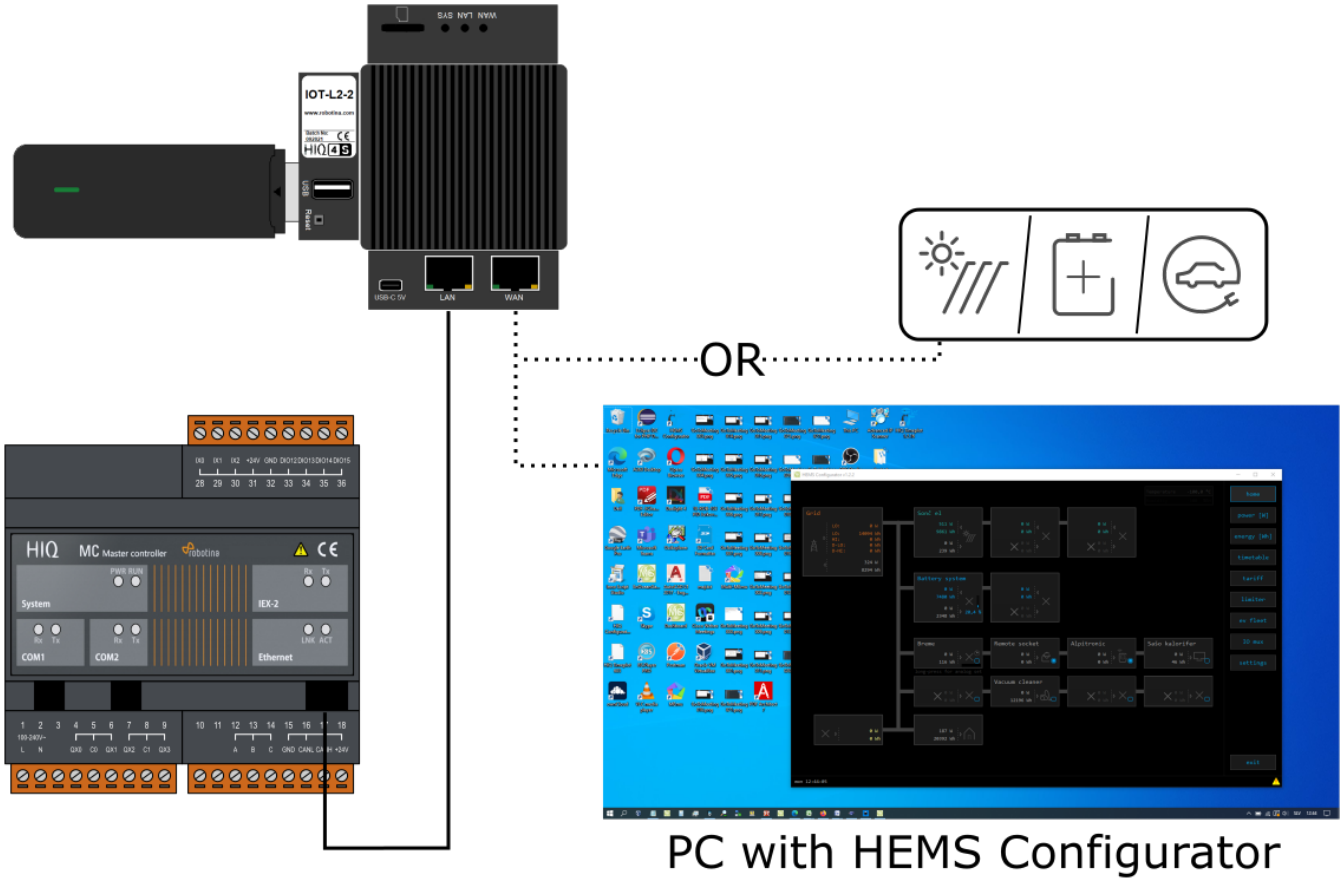
Optional LAN connections:


ROUTER
To the LAN
IOT-L2-2
LAN
WAN
HIQ MC Master controller
System
IEX-2
COM1
COM2
Ethernet
PC with HEMS Configurator

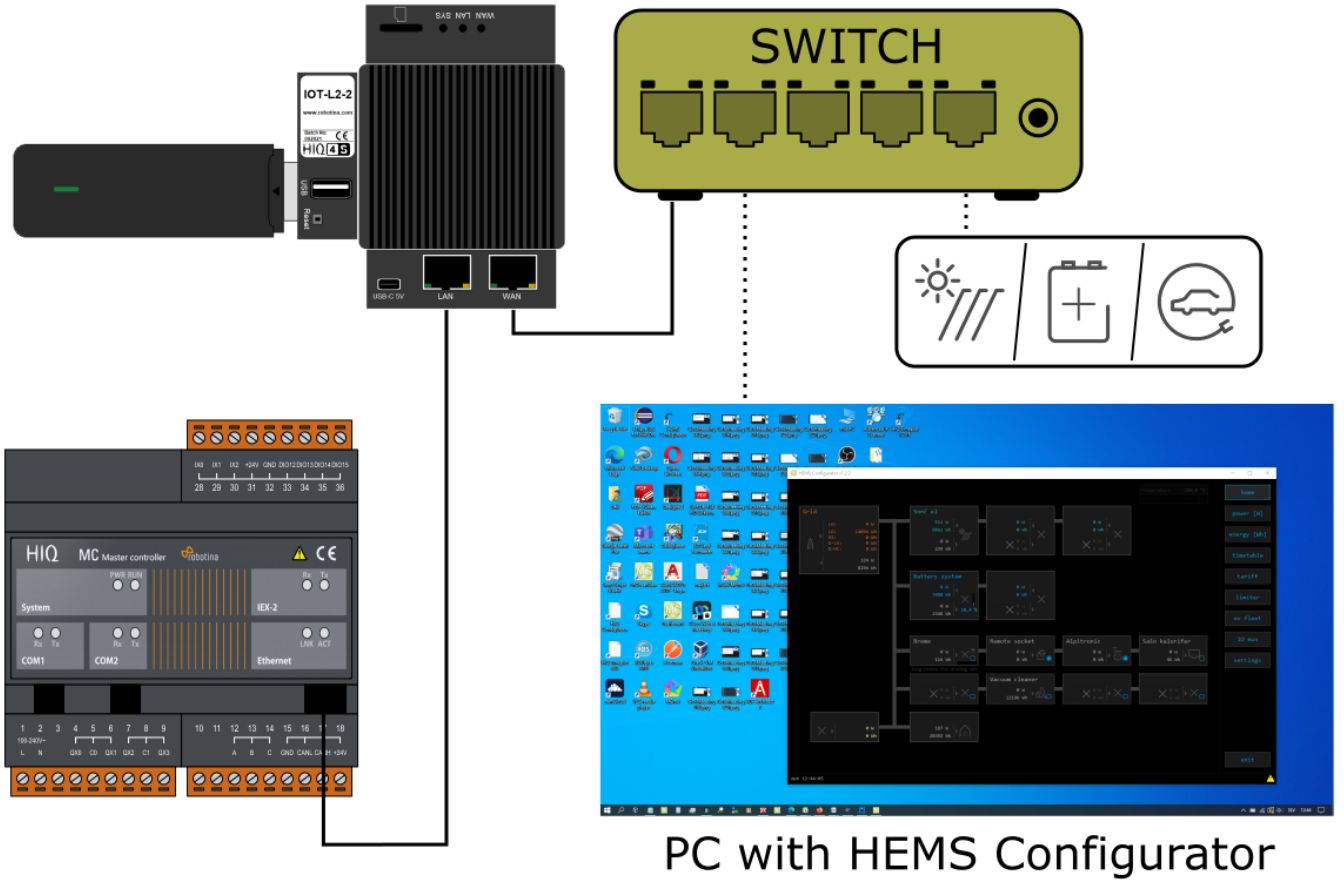

ROUTER
To the LAN
SWITCH
IOT-L2-2
LAN
WAN
HIQ MC Master controller
System
IEX-2
COM1
COM2
Ethernet
PC with HEMS Configurator

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.

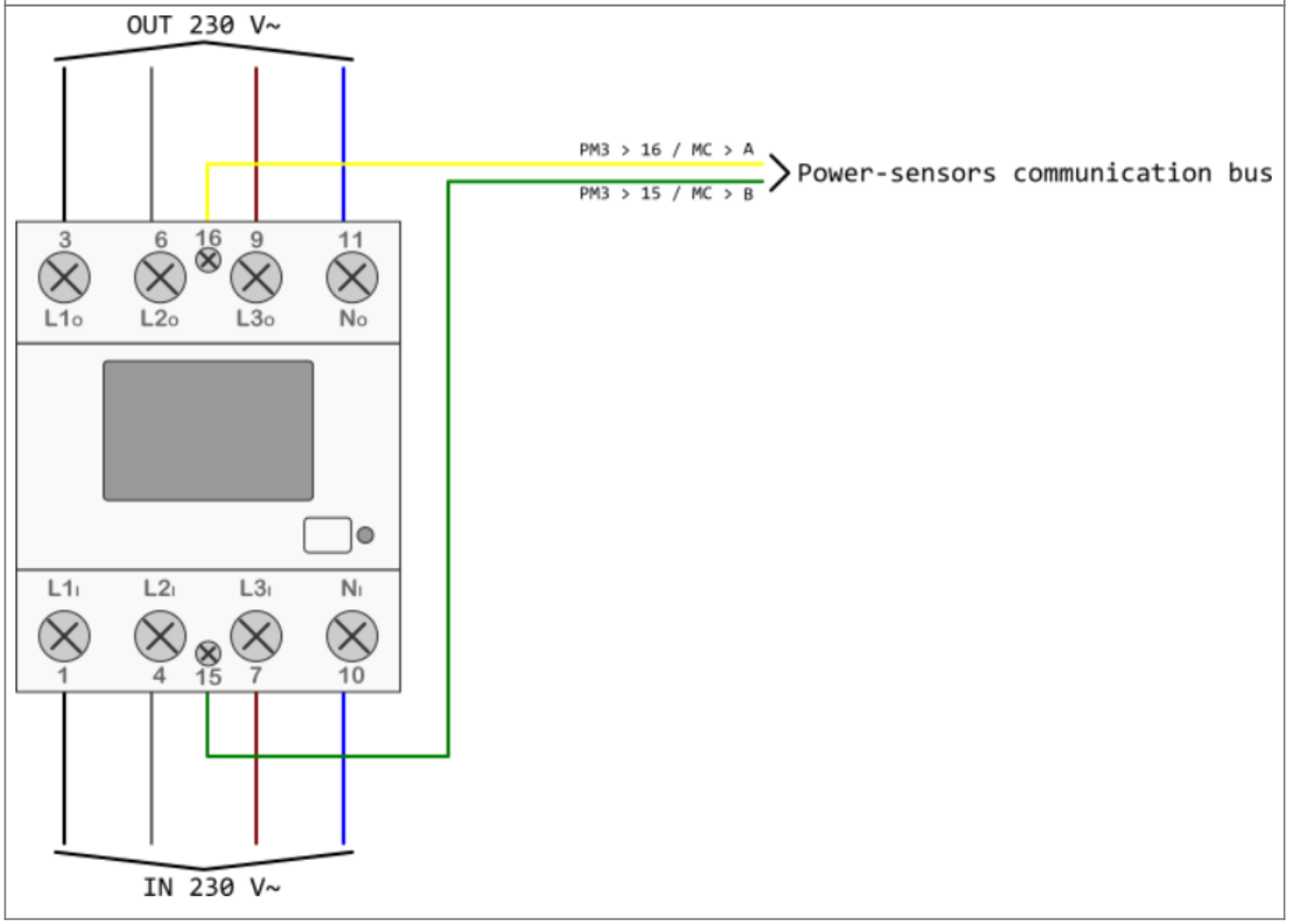


Optional LTE 4G modem connection:

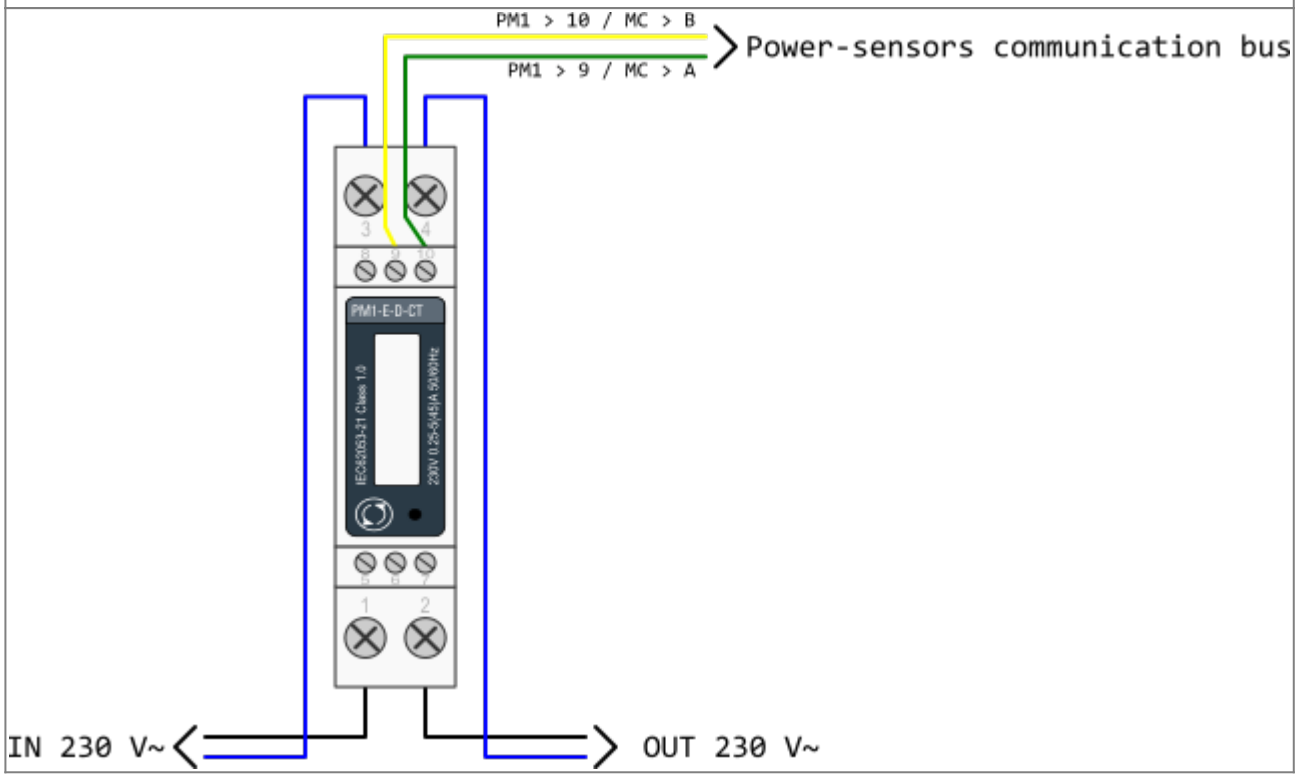


NOTE: Specific network requirements, i.e. static IP address can be configured on the cloud service. Please contact support.

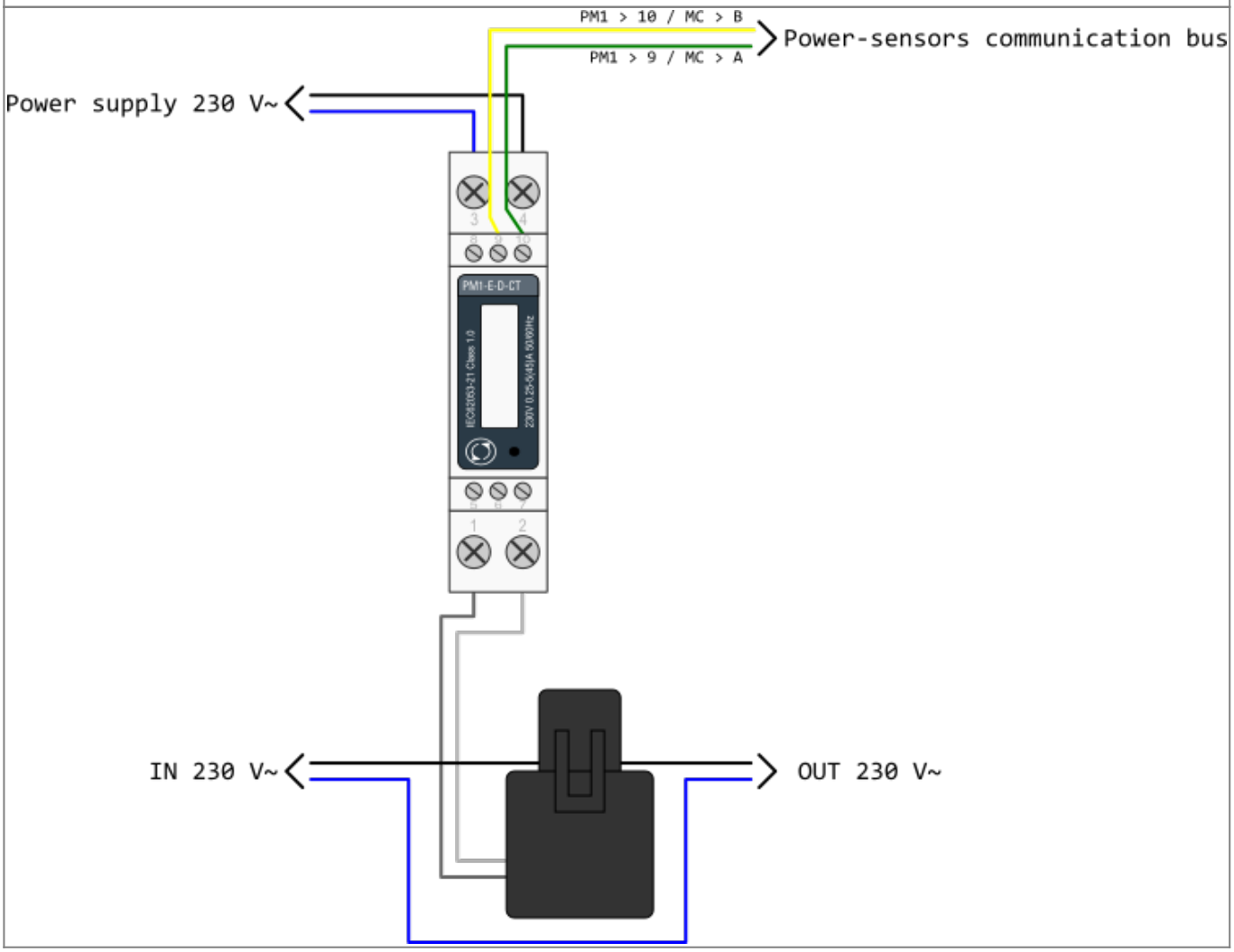
PM3-I-D


OUT 230 V~
PM3 > 16 / MC > A
PM3 > 15 / MC > B
Power-sensors communication bus
3
6
16
9
11
L1o
L2o
L3o
No
L1i
L2i
L3i
Ni
1
4
15
7
10
IN 230 V~

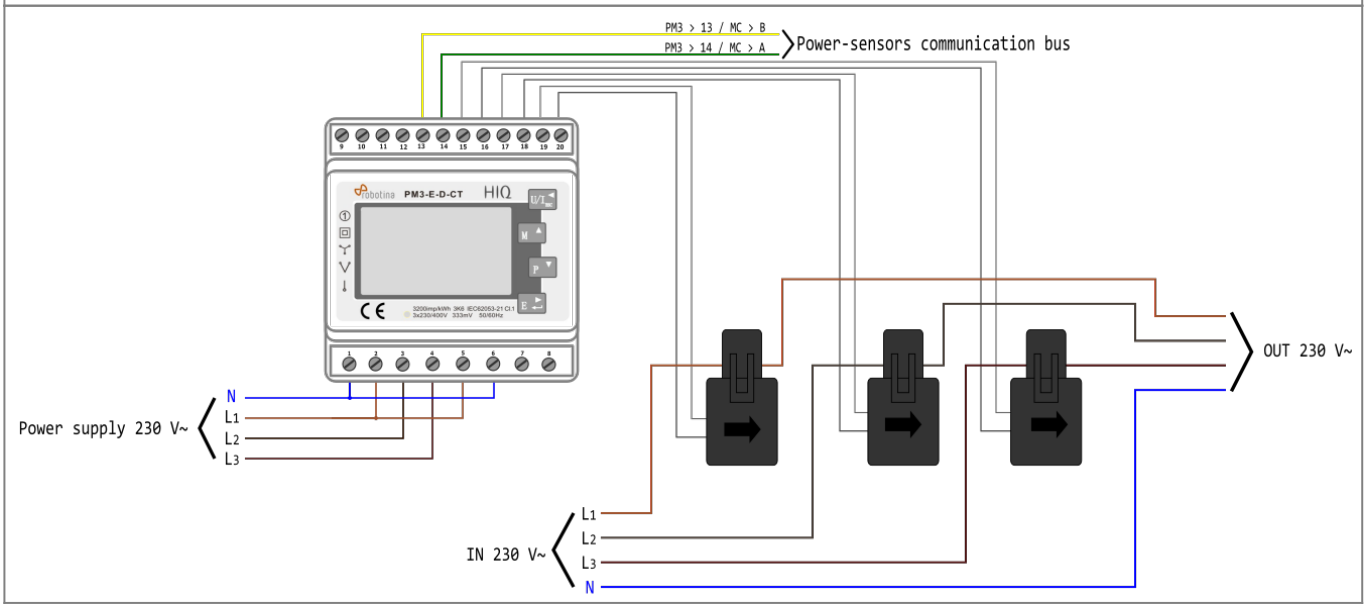
PM1-E-D


PM1 > 10 / MC > B
PM1 > 9 / MC > A
Power-sensors communication bus
PM1-E-D-CT
IN 230 V~
OUT 230 V~

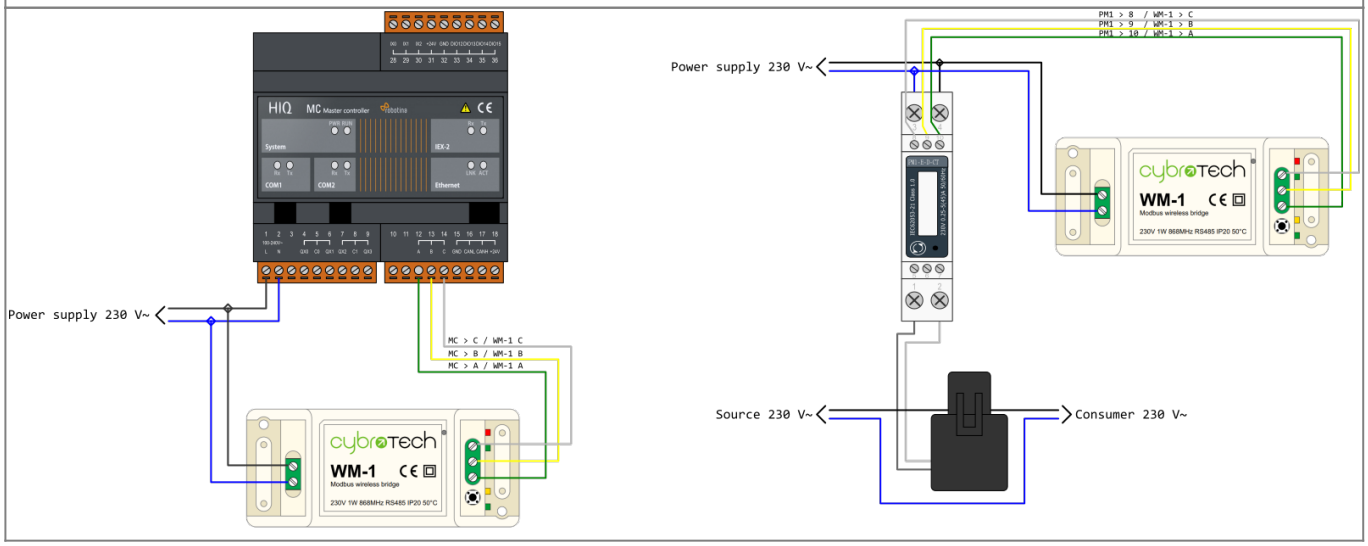
PM1-E-D-CT


PM1 > 10 / MC > B
PM1 > 9 / MC > A
Power-sensors communication bus
Power supply 230 V~
PM1-E-D-CT
IN 230 V~
OUT 230 V~

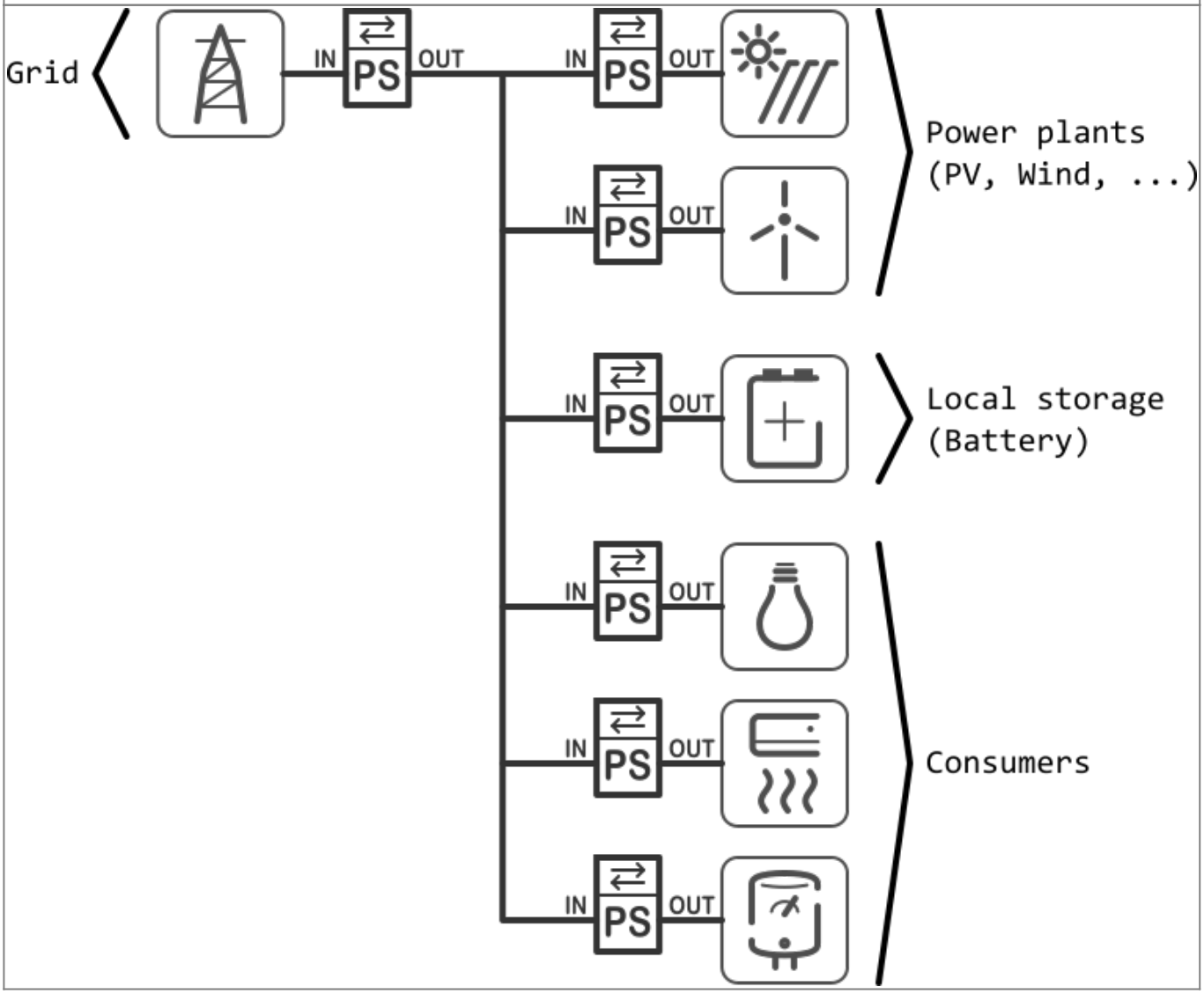
PM3-E-D-CT


PM3 > 13 / MC > B
PM3 > 14 / MC > A
Power-sensors communication bus
PM3-E-D-CT
HIQ
OUT 230 V~
Power supply 230 V~
N
L1
L2
L3
IN 230 V~
L1
L2
L3
N

WM-1


HIQ MC Master controller
Power supply 230 V~
MC > C / WM-1 C
MC > B / WM-1 B
MC > A / WM-1 A
cybrotech
WM-1
Modbus wireless bridge
230V 1W 868MHz RS485 IP20 50°C
PM1 > 8 / WM-1 > C
PM1 > 9 / WM-1 > B
PM1 > 10 / WM-1 > A
Power supply 230 V~
Source 230 V~
Consumer 230 V~

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.