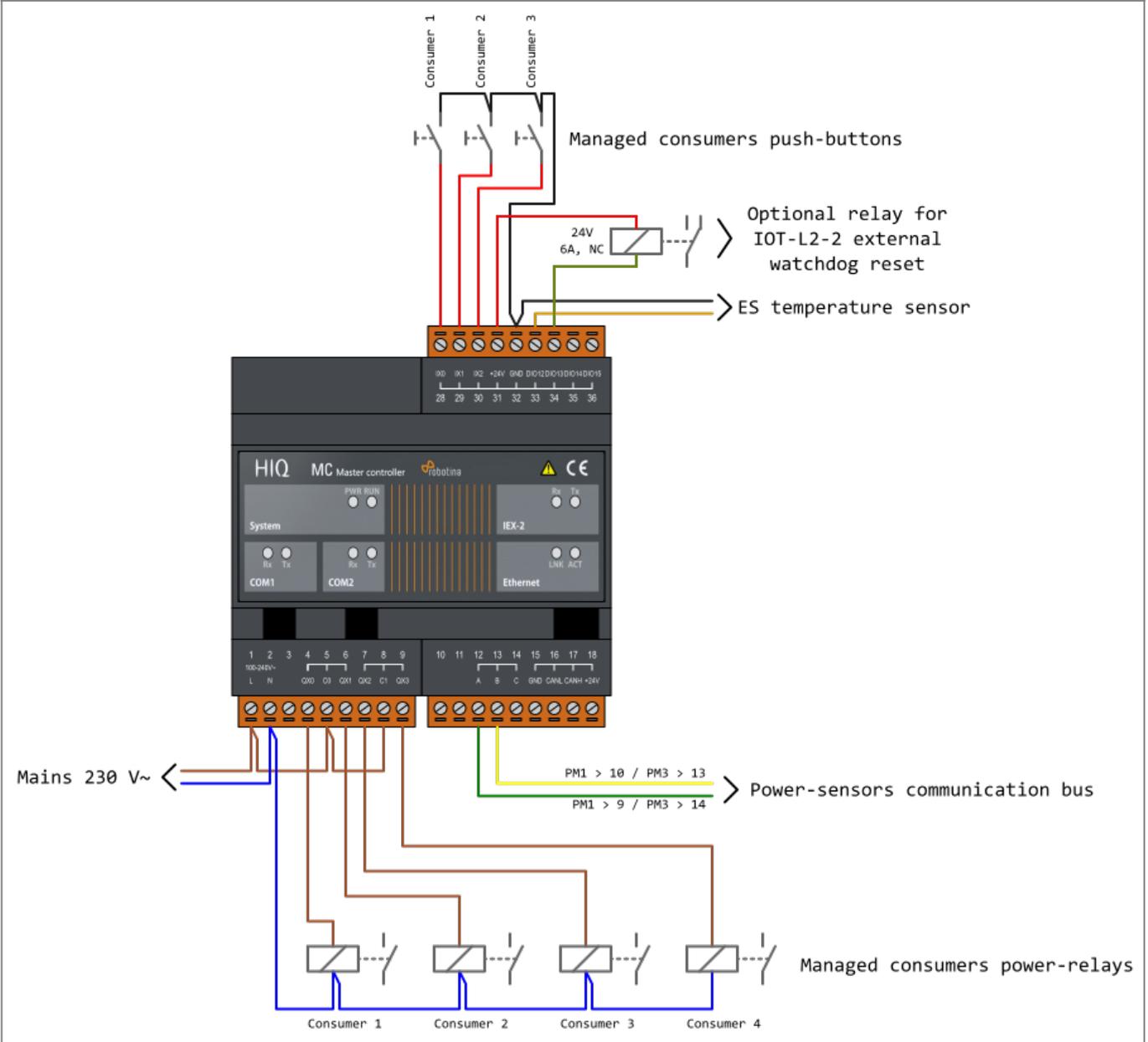# HEMS v1.2.x wiring

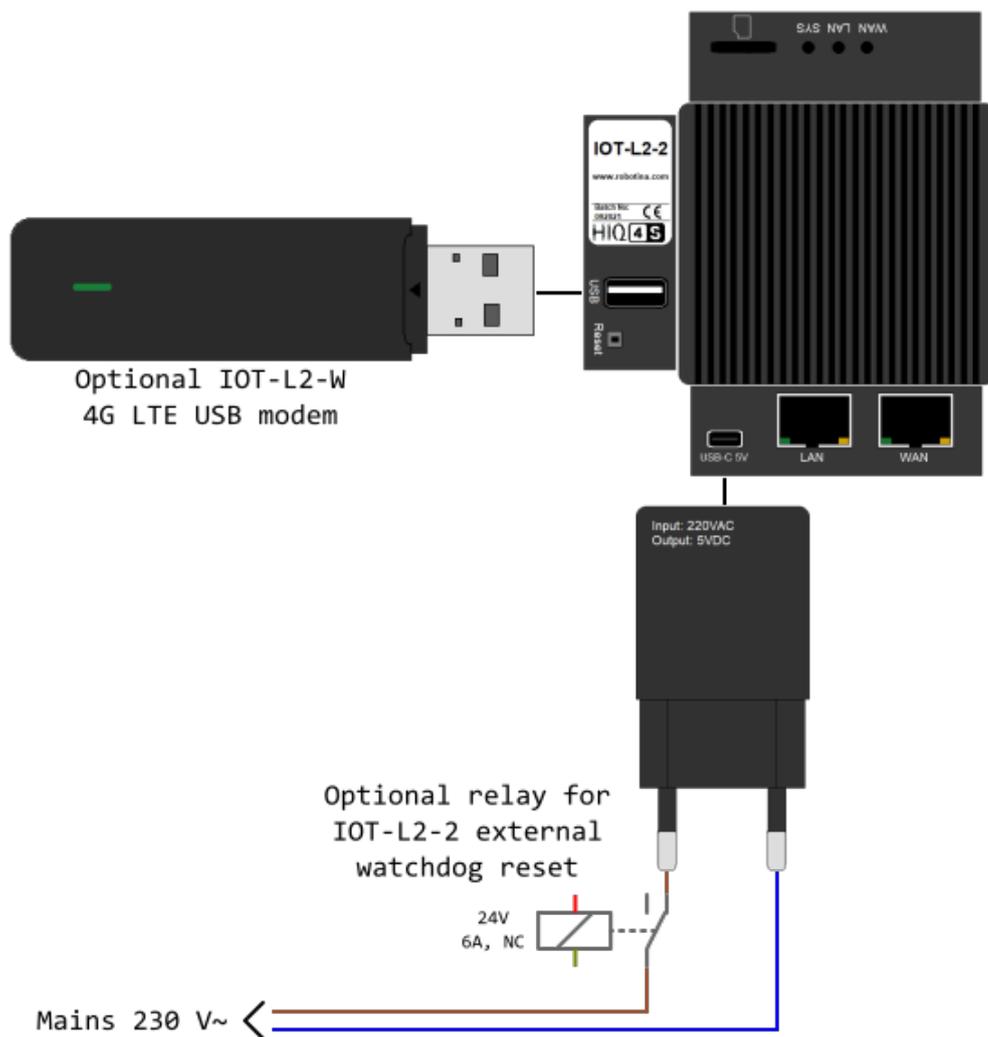**MC-230**

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

## IOT-L2-2

Optional IOT-L2-W
4G LTE USB modem

IOT-L2-2
www.robotina.com

Input: 220VAC
Output: 5VDC

USB-C 5V   LAN   WAN

Optional relay for
IOT-L2-2 external
watchdog reset

24V
6A, NC

Mains 230 V~

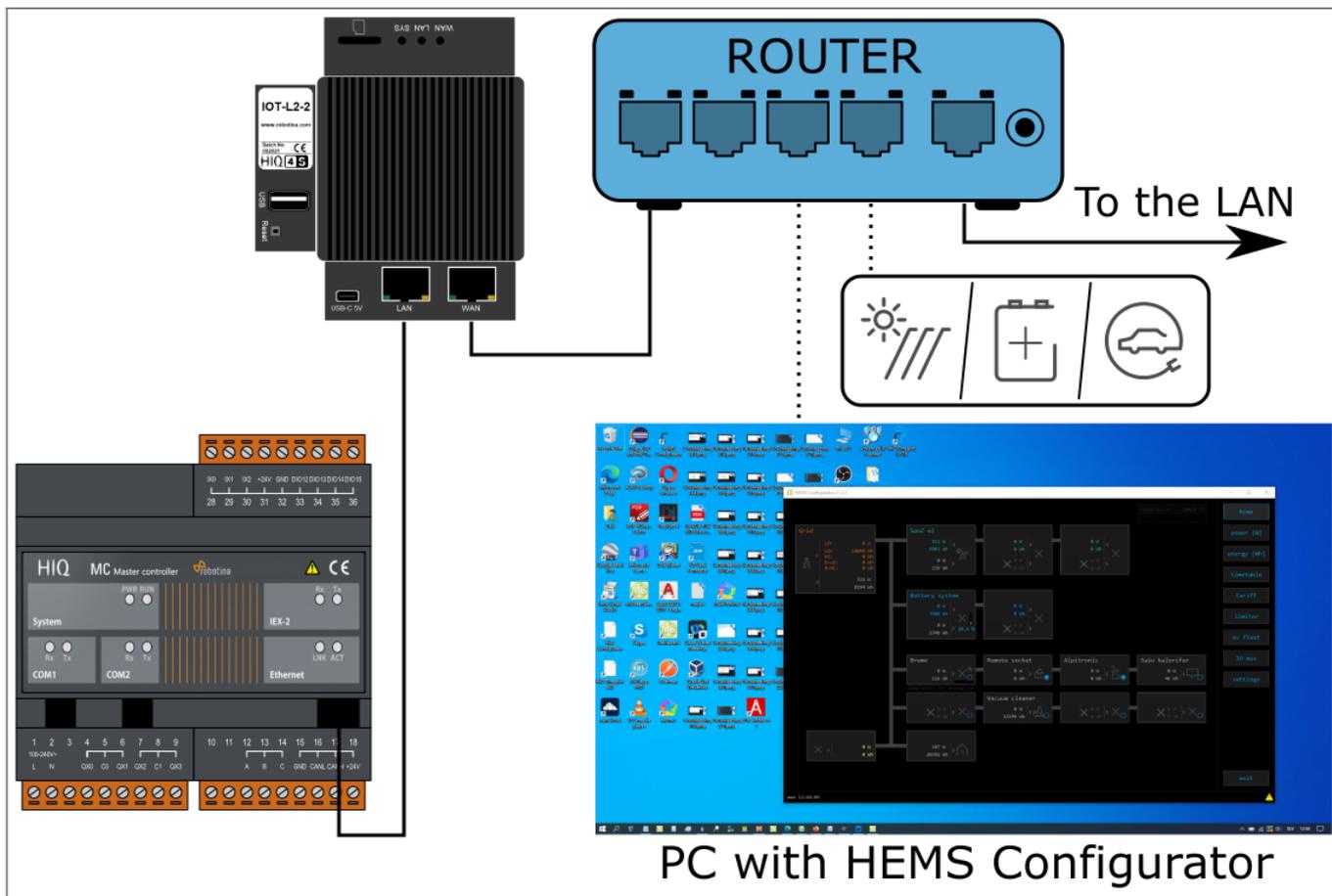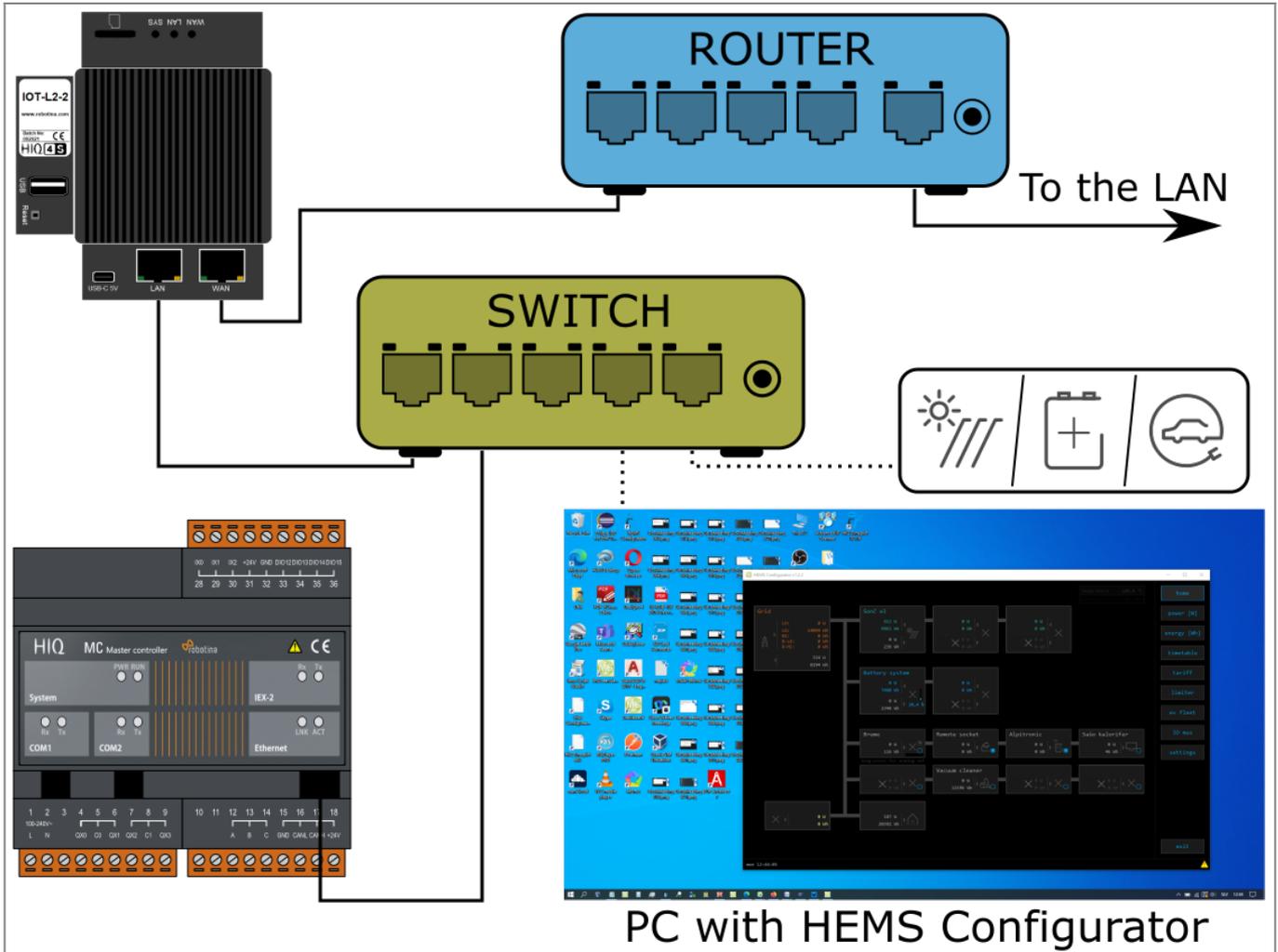## Network → MC-230, IOT-L2-2 and optionally LTE 4G modem

NOTE: All devices will have internet access vis LTE modem which can result in high costs on your LTE account.
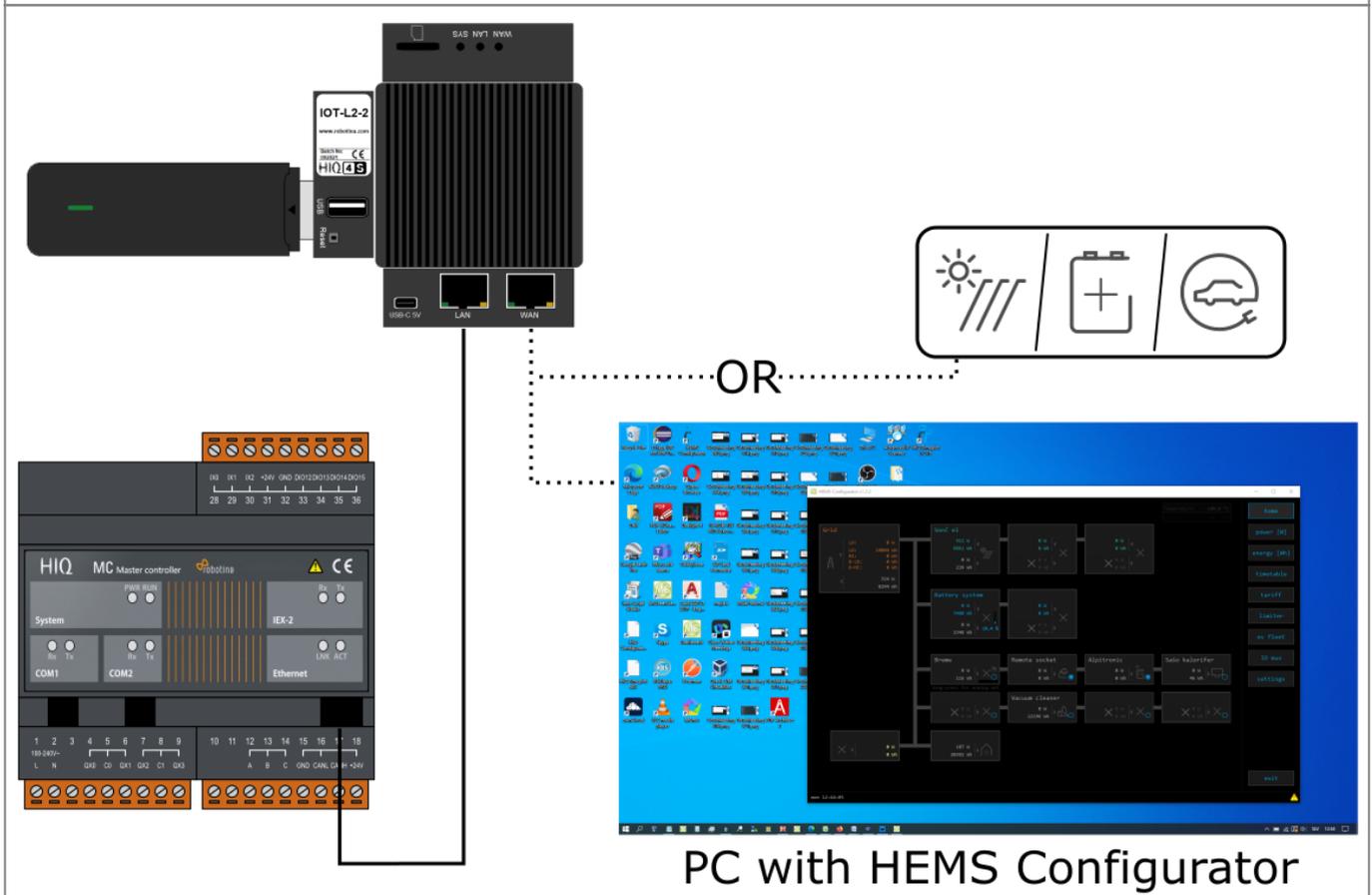
Default connection to the LAN:

PC with HEMS Configurator
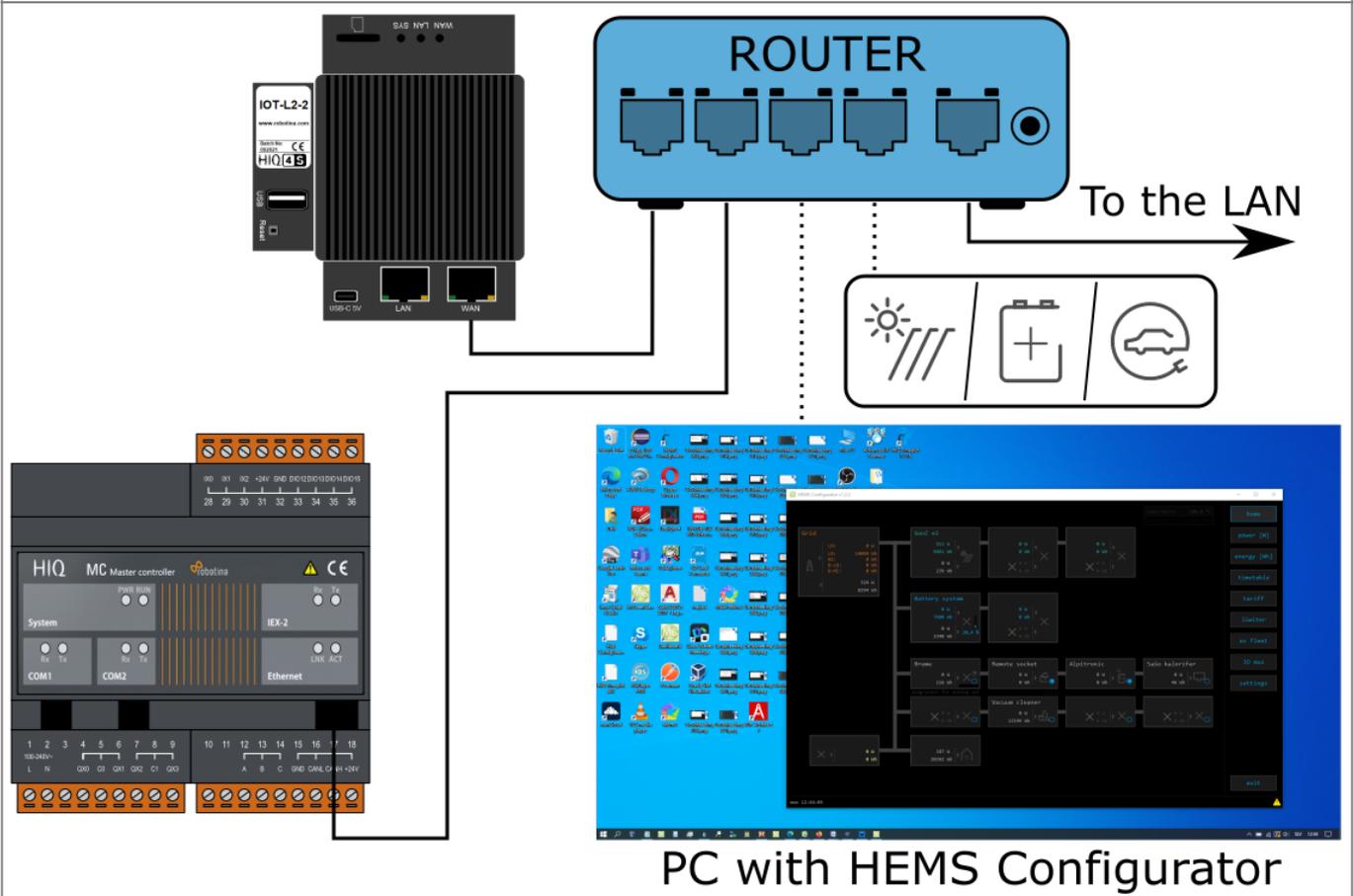
Optional LAN connections:

PC with HEMS Configurator

PC with HEMS Configurator

Default connection via LTE 4G modem:

OR

PC with HEMS Configurator

Optional LTE 4G modem connection:

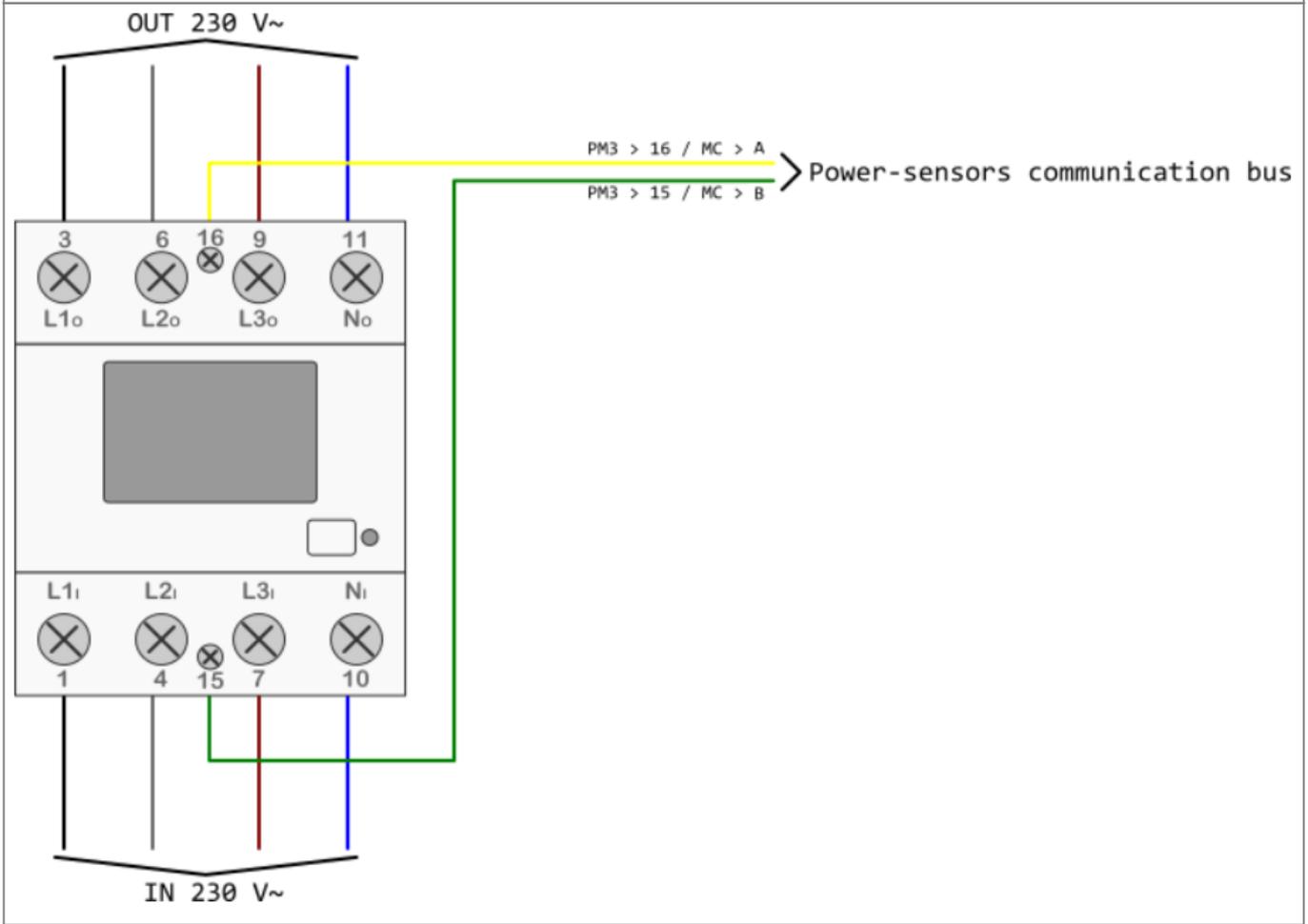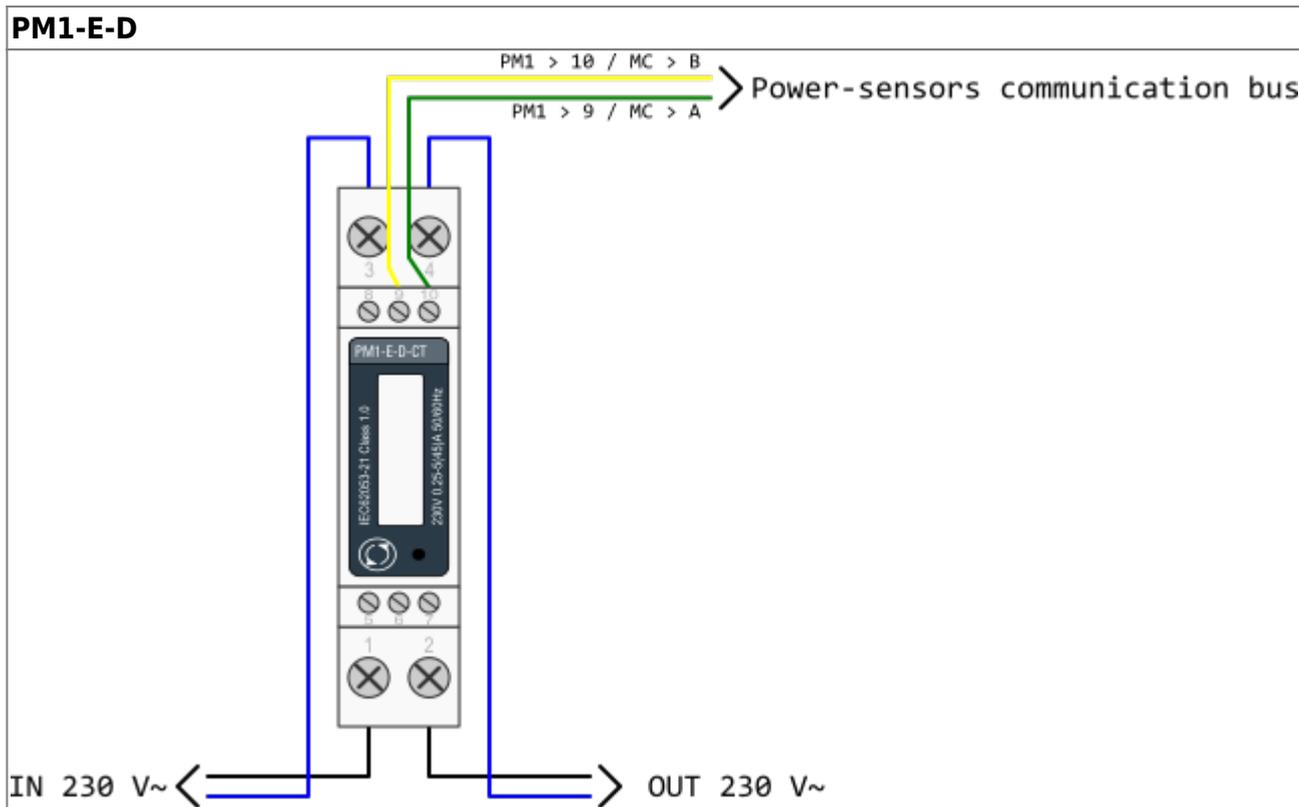PC with HEMS Configurator
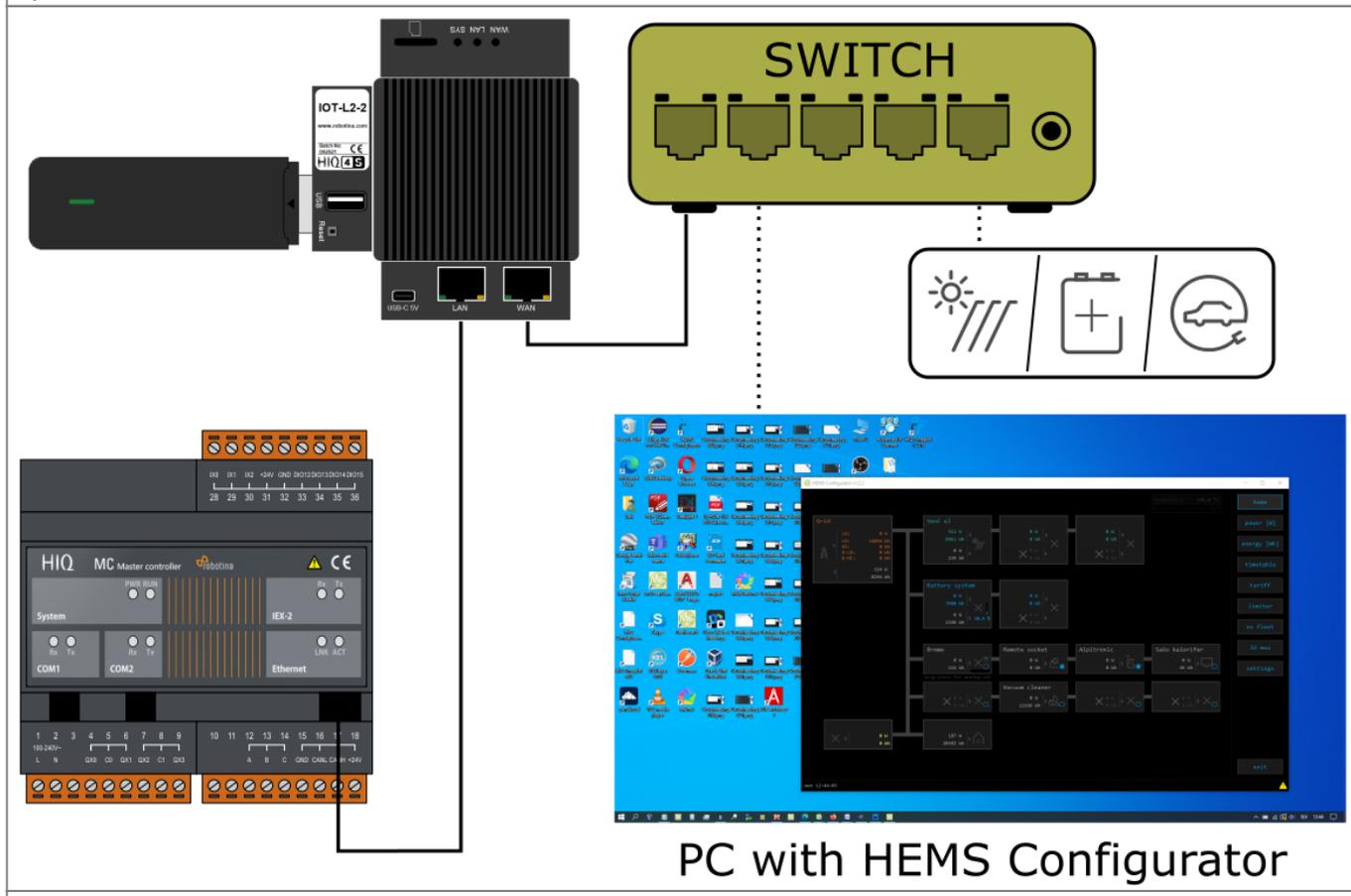
NOTE: Specific network requirements, i.e. static IP address can be configured on the cloud service.
Please contact support.

PM3-I-D

OUT 230 V~

PM3 > 16 / MC > A

Power-sensors communication bus

PM3 > 15 / MC > B

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

Power-sensors communication bus

PM1 > 9 / MC > A

PM1-E-D-CT

IEC62053-21 Class 1.0

230V 0.25-5(45)A 50/60Hz

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

IEC62053-21 Class 1.0
230V 0.25-5(45)A 50/60Hz

IN 230 V~

OUT 230 V~

PM3-E-D-CT

WM-1

Power-sensors orientation
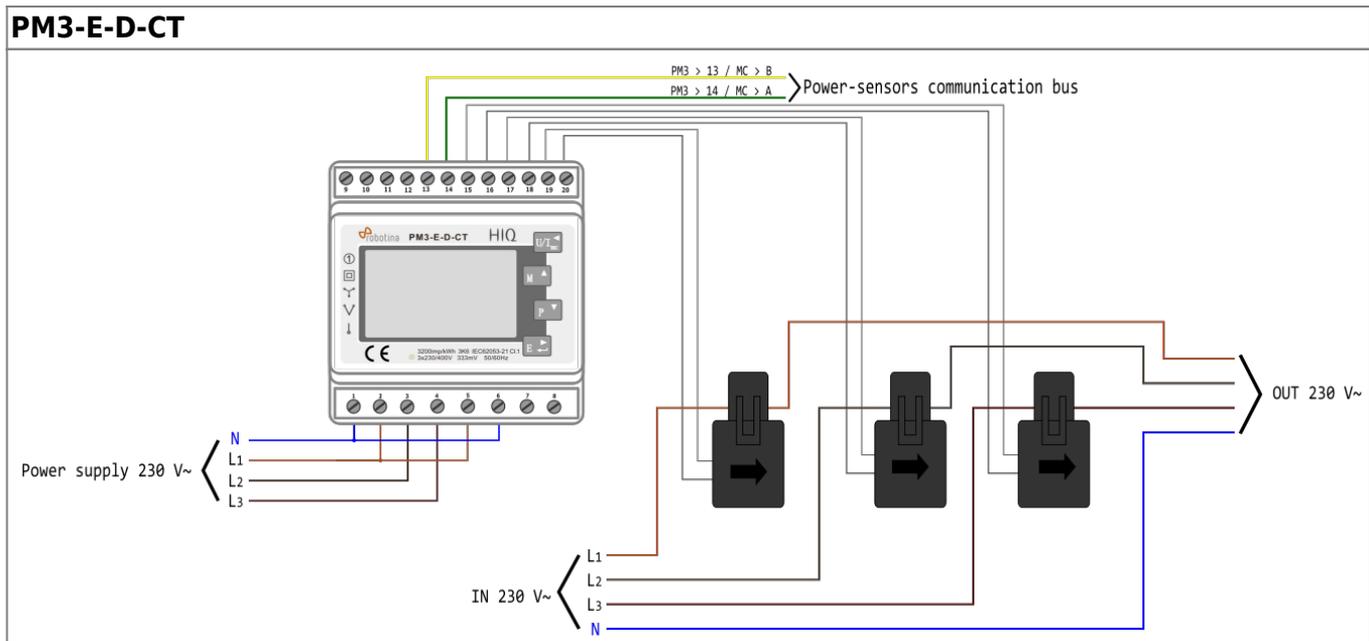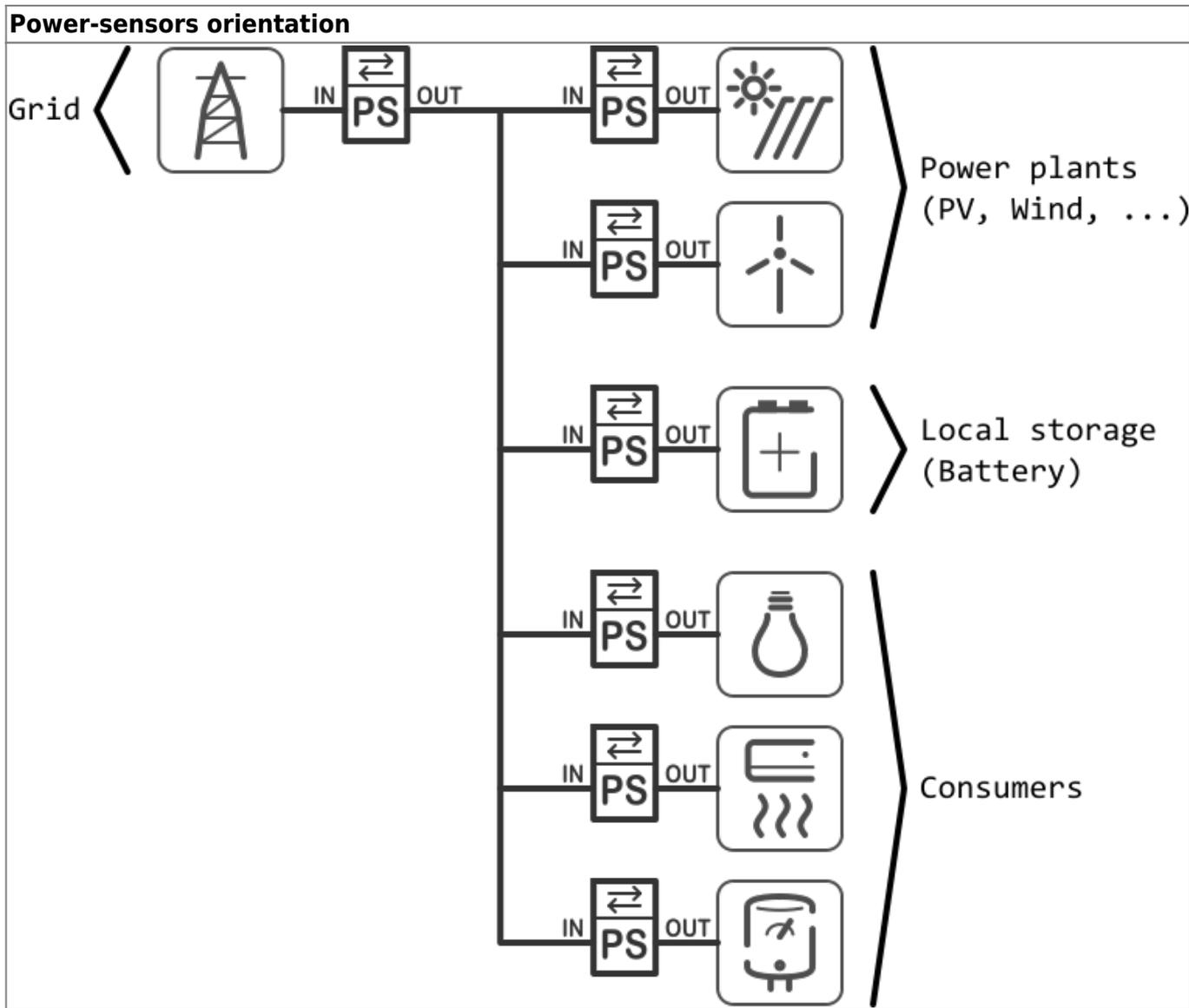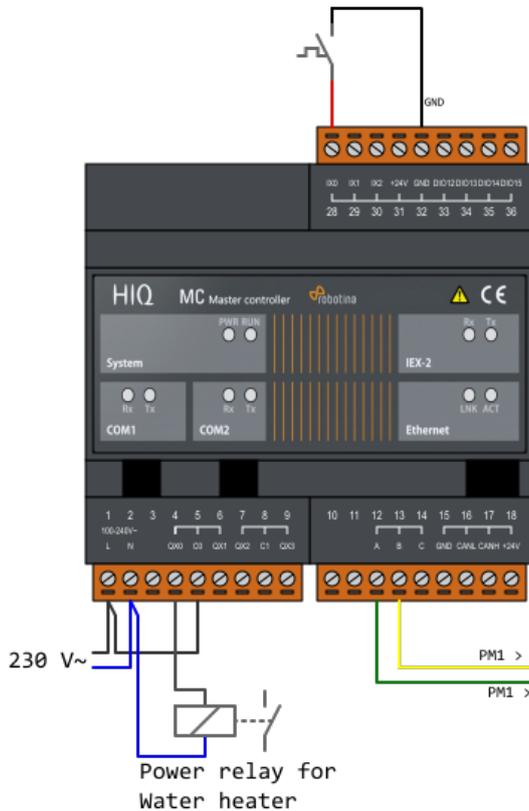
Control consumer by external signal

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

230 V~

Power relay for Water heater

PM1 > 10 / PM3 > 16
PM1 > 9 / PM3 > 15
Power-sensors communication bus