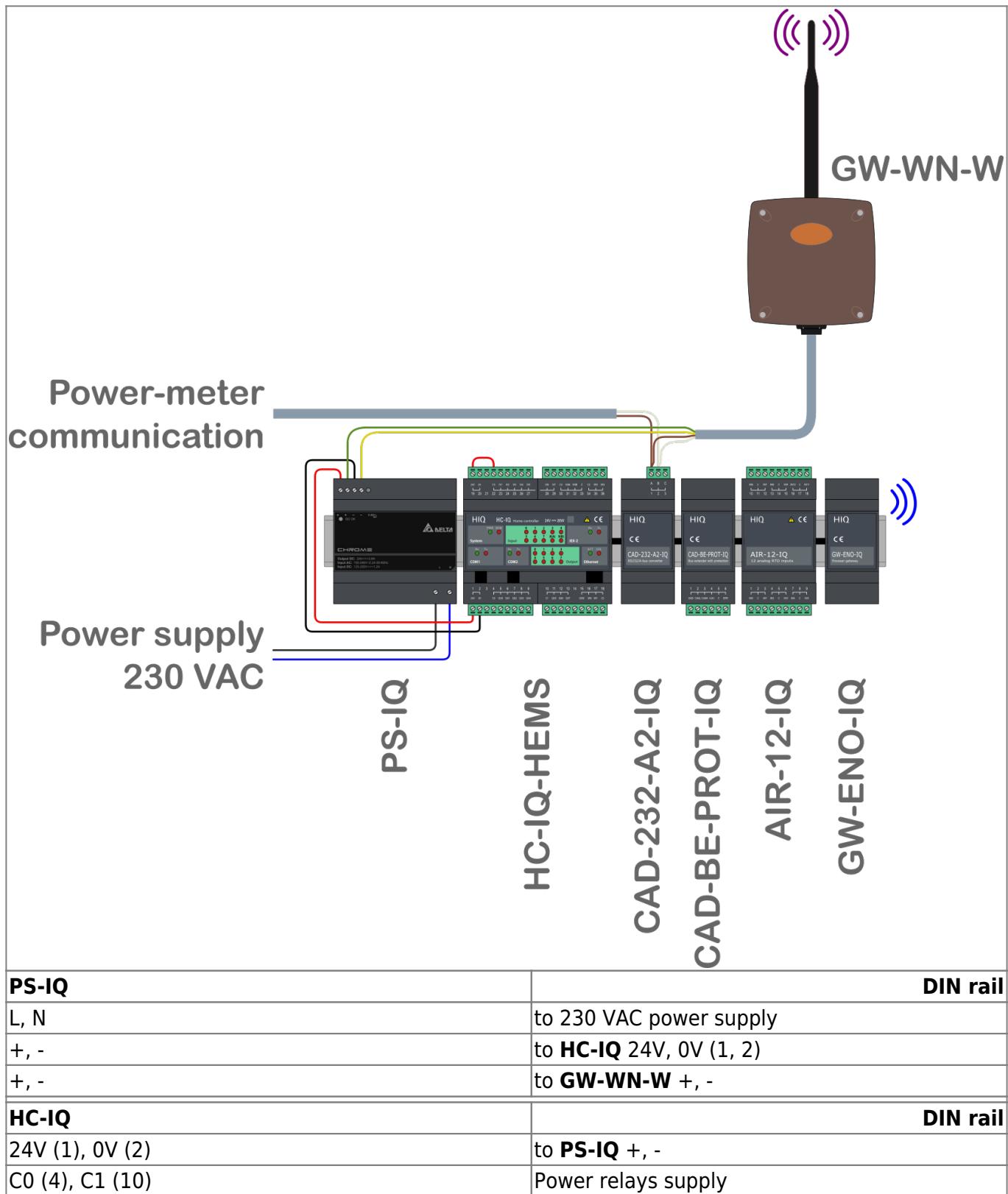


# GOFLEX HEMS wiring

## Control distribution-board wiring

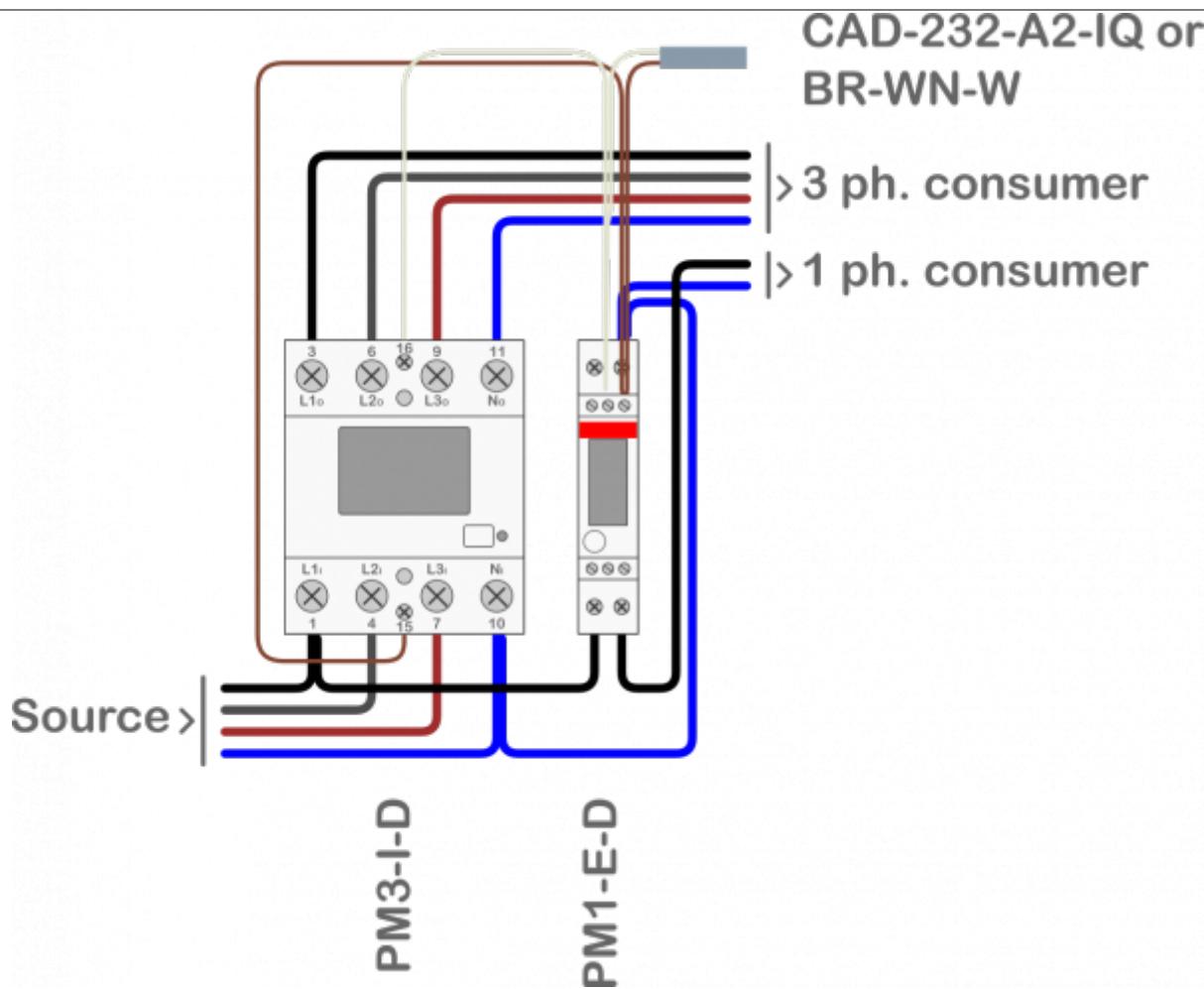
### Control system and Communication interfaces wiring



QX0-QX7 (5-9, 11-13)	Managed loads power relays
24V (19)	to <b>HC-IQ</b> C3 (22)
0V (20)	to push-buttons common
IX1-IX7 (23-29)	to push-button
RJ10 (right side)	to next DIN rail module
<b>CAD-232-A2-IQ</b>	<b>DIN rail</b>
A (1), B (2), C (3)	RS485 bus to power-meters and to <b>GW-WN-IQ</b>
RJ10 (left side)	to previous DIN rail module
RJ10 (right side)	to next DIN rail module
<b>CAD-BE-PROT-IQ</b>	<b>DIN rail</b>
GND (1), CANL (2), CANH (3), +24V (4)	IEX2 bus to field modules
RJ10 (left side)	to previous DIN rail module
RJ10 (right side)	to next DIN rail module
<b>AIR-12-IQ</b>	<b>DIN rail</b>
IWx , C	Pt 1000 temperature probe
RJ10 (left side)	to previous DIN rail module
RJ10 (right side)	to next DIN rail module
<b>GW-ENO-IQ</b>	<b>DIN rail</b>
RJ10 (left side)	to previous DIN rail module
RJ10 (right side)	to next DIN rail module
<b>GW-WN-W</b>	<b>on wall</b>
	
+ , -	to <b>PS-IQ</b> +, -
Rx/T+, Tx/T-	to <b>CAD-232-A2-IQ</b> A, B
DIP settings	1=ON, 2-8=OFF

## Power meters

### Sources and consumers measurements



<b>PM3-I-D</b>	<b>DIN rail</b>
L1i, L2i, L3i, N	to power source L1, L2, L3, N (grid, local power plant, generator, ...)
L1o, L2o, L3o, N	to consumers L1, L2, L3, N
15, 16	to <b>CAD-232-A2-IQ</b> A,B or to <b>BR-WN-W</b> Rx/T+, Tx/T- when there is no possibility to connect directly
<b>PM1-E-D</b>	<b>DIN rail</b>
L↑ (1)	to power source L (grid, local power plant, generator, ...)
L↓ (2)	to consumer L
9, 10	to <b>CAD-232-A2-IQ</b> B,A or to <b>BR-WN-W</b> Tx/T-, Rx/T+ when there is no possibility to connect directly
<b>BR-WN-W</b>	<b>on wall</b>

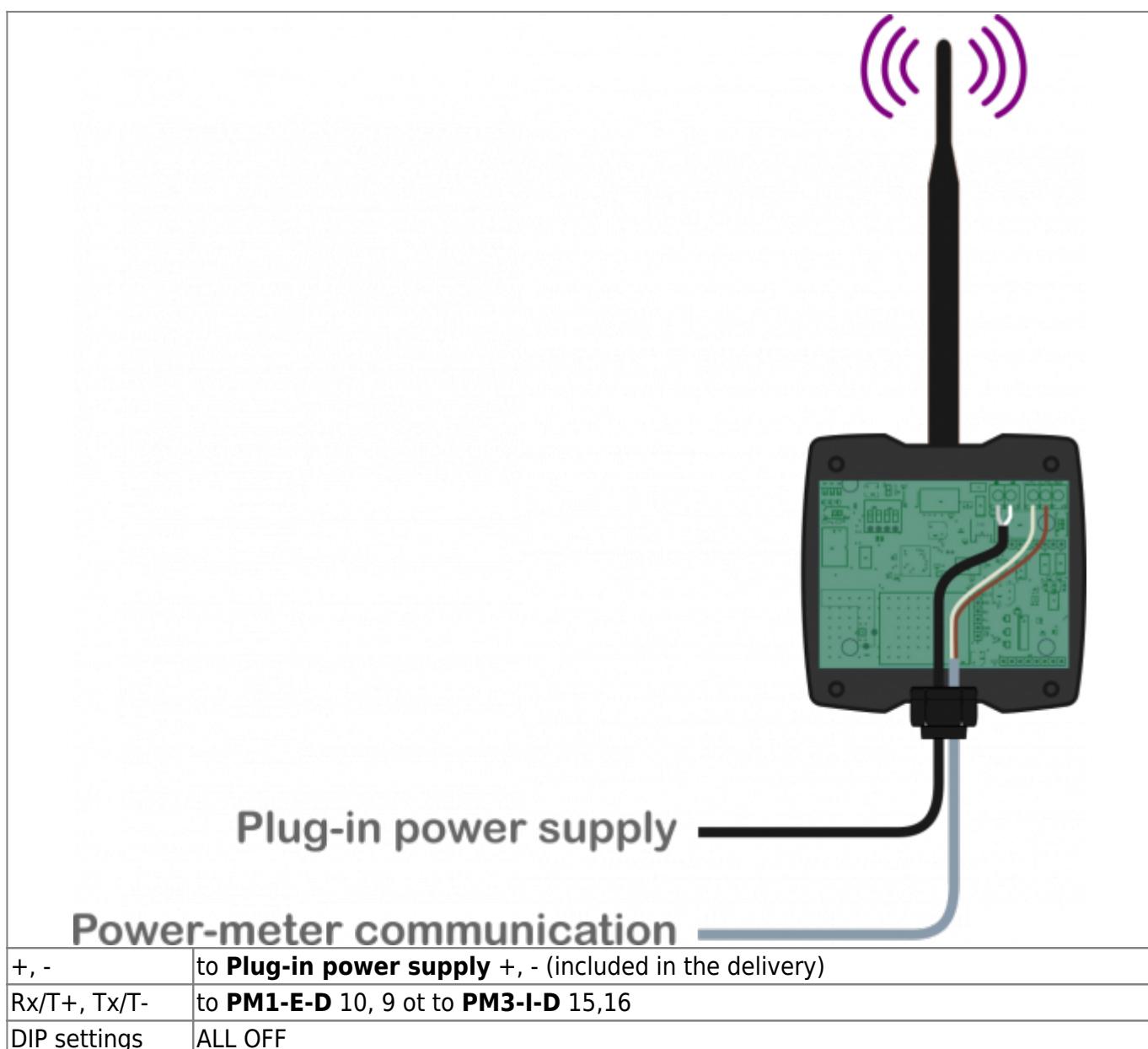
Last

update:

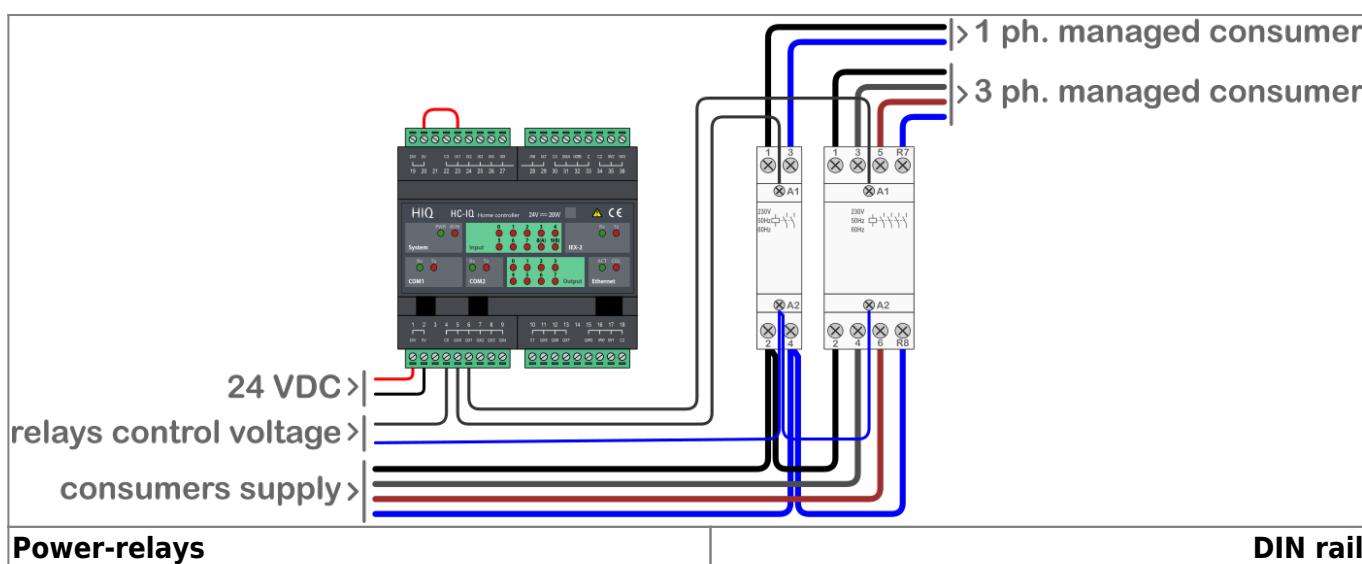
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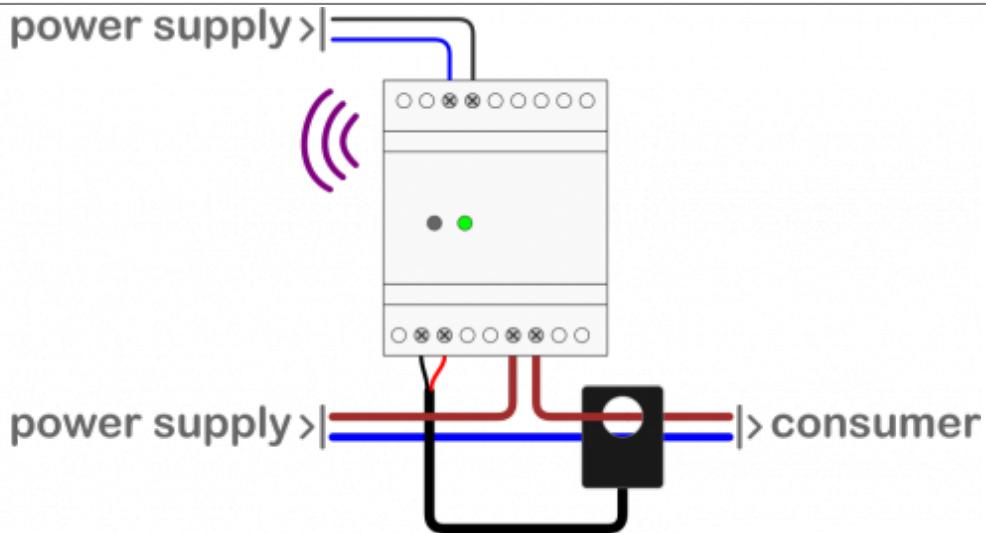
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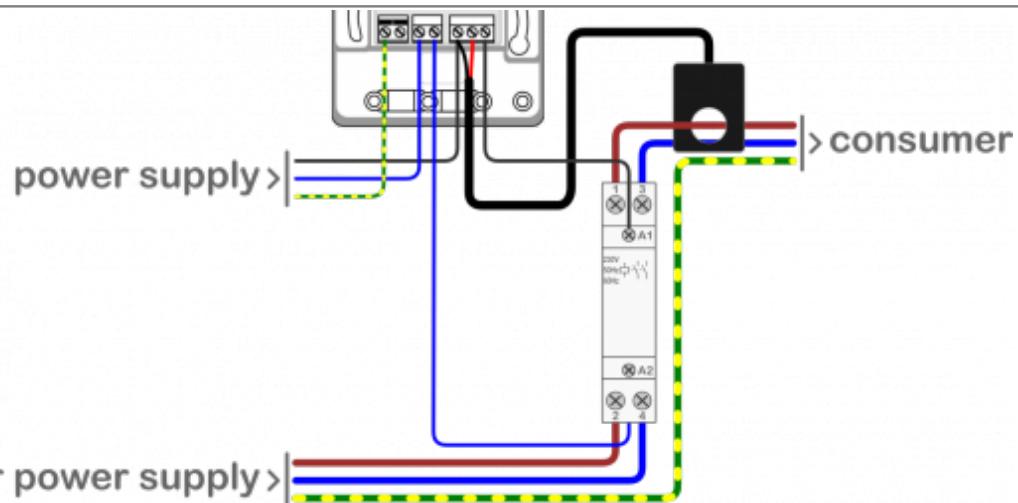
## Load managers



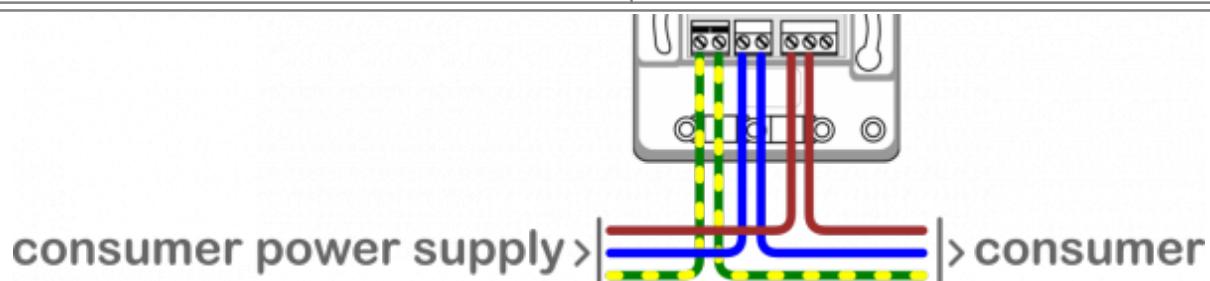
Relays control voltage A1, A2 (2, 4 or 2, 4, 6, R8) (1, 3 or 1, 3, 5, R7)	<b>HC-IQ-HEMS</b> QX0-QX7 for managed load 1 to 8, N Consumer power supply L, N or L1, L2, L3, N Consumer L, N or L1, L2, L3, N
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<b>PM1-WN-D</b>	<b>DIN rail</b>
16, 17	power supply 230 VAC
2, 3	current transformer black, red
6, 7	consumer power supply - consumer L



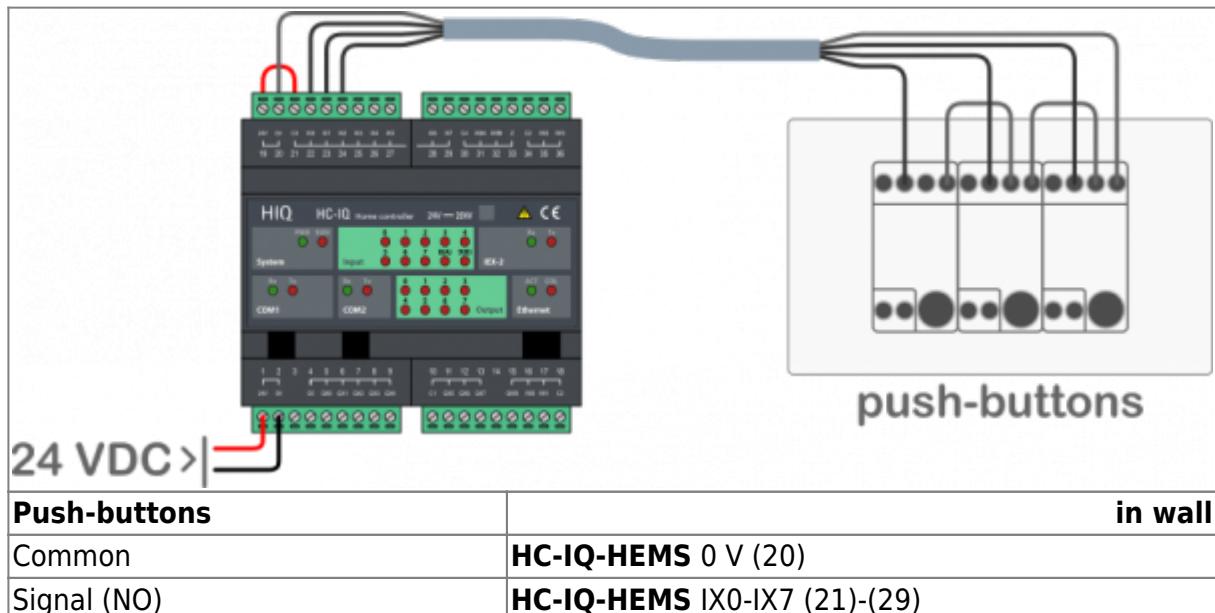
<b>PM1-WN-W</b>	<b>on wall</b>
1, 1a	PE, internally connected
2, 2a	N, internally connected
3	Device supply / Current transformer black
3a	Current transformer red
3b	Output (Consumer)



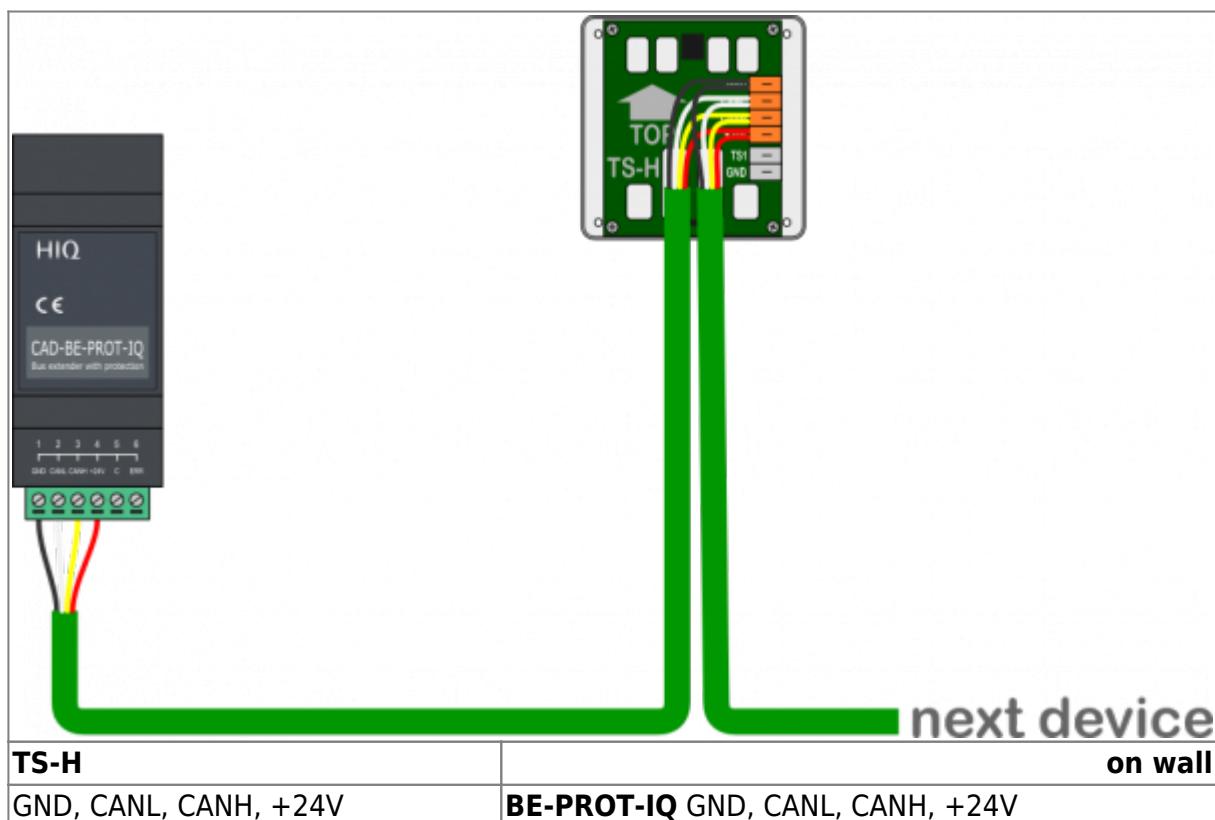
<b>RL1-WN-W</b>	<b>on wall</b>
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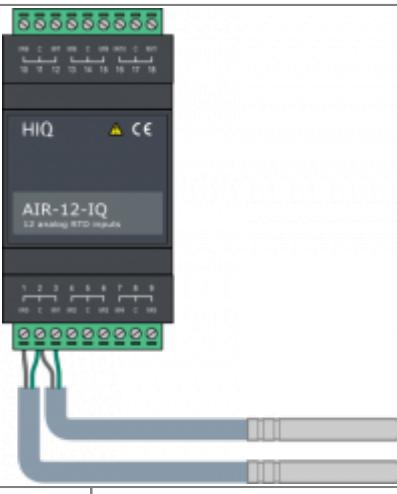
1, 1a	PE, internally connected
2, 2a	N, internally connected
3	Device and consumer supply
3a	Consumer output
<b>SC1-WN-F</b>	<b>power outlet</b>
Plugged in power outlet, consumer plugged in	

## Control devices



## Sensors



TS0, GND	<b>ES</b> external temperature probe red, black
	
<b>AIR-12</b>	<b>DIN rail</b>
C, IW0-IW11	Pt1000 temperature probes
RJ10 (left side)	to previous DIN rail module
RJ10 (right side)	to next DIN rail module
	
<b>Plug-in power supply</b>	
<b>TDI-WN-W</b>	<b>on wall</b>
1, 2 (from top)	Digital input 1
3, 4	Digital input 2
5, 6	NTC temperature probe input 1
7, 8	NTC temperature probe input 2
+, -	Plug-in power supply

DIP setting	Address setting: [1=lsb, 8=msb] - sensor 1, address 60 = 0011 1100 - sensor 2, address 61 = 1011 1100 - sensor 3, address 62 = 0111 1100 - sensor 4, address 63 = 1111 1100 - sensor 5, address 64 = 0000 0010 - sensor 6, address 65 = 1000 0010 - sensor 7, address 66 = 0100 0010 - sensor 8, address 67 = 1100 0010
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