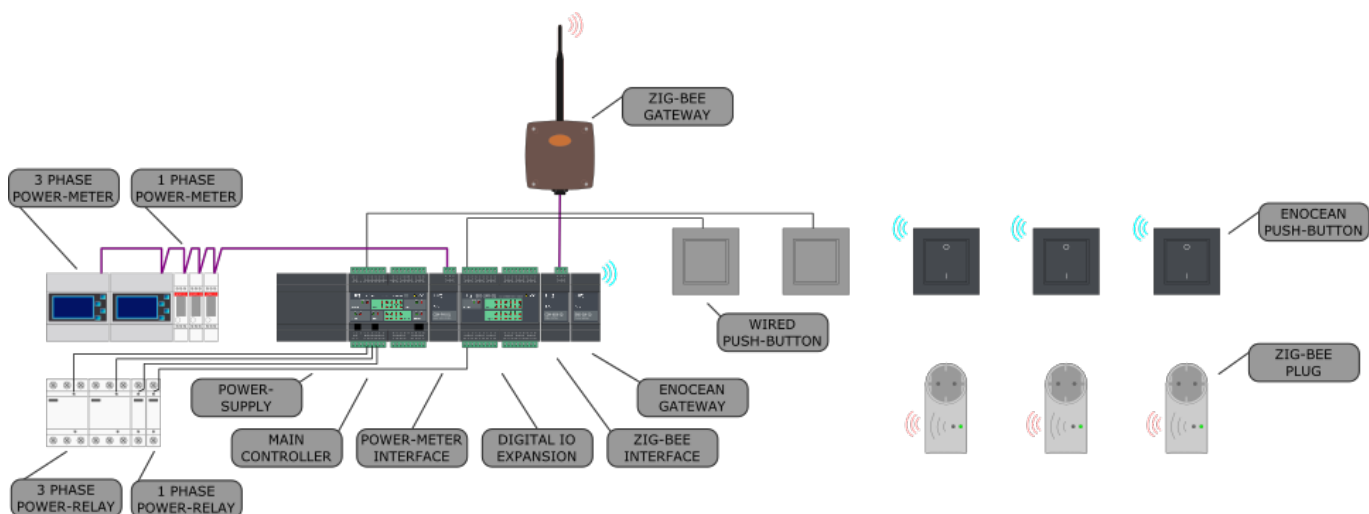


# HEMS Devices



## Control system

item	code	function
<b>POWER SUPPLY</b>	<b>PS-IQ</b>	powering HEMS control system
<b>MAIN CONTROLLER</b>	<b>HC-IQ</b>	main HEMS controller
<b>POWER-METER INTERFACE</b>	<b>COM-PMI-IQ</b>	communication interface for power meters, up to 6 power-meters for source and 20 power meters for consumers supported
<b>DIGITAL IO EXPANSION</b>	<b>BIO-24R-IQ</b>	expansion for additional wired push-buttons and power relays
<b>ZIG-BEE INTERFACE</b>	<b>COM-NOK-IQ</b>	communication interface for wireless Zigbee plugs, up to 8 plugs supported
<b>ENOCEAN GATEWAY</b>	<b>ENO-GW-IQ</b>	gateway for EnOcean wireless push buttons, up to 8 push buttons supported
<b>ZIG-BEE GATEWAY</b>	<b>ZC-GW-485-EM</b>	gateway for Zigbee wireless push buttons

## Accessories

item	code	connected to	function
<b>3 PHASE POWER-METER</b>	<b>SDM630DC</b>	RS485, 2 wire to power-meter interface	monitoring 3 phase power sources and consumers
<b>1 PHASE POWER-METER</b>	<b>SDM120C</b>	RS485, 2 wire to power-meter interface	monitoring single phase power sources and consumers
<b>3 PHASE POWER-RELAY</b>	<b>generic power relays, 230 VAC coil</b>	to HC-IQ or to BIO-24R-IQ digital output	control of 3 phase managed loads
<b>1 PHASE POWER-RELAY</b>		to HC-IQ or to BIO-24R-IQ digital output	control of single phase managed loads
<b>WIRED PUSH-BUTTON</b>	<b>generic push-button</b>	to HC-IQ or to BIO-24R-IQ digital input	push buttons for manual toggle managed loads controlled by power relays

item	code	connected to	function
<b>ENOCAN PUSH-BUTTON</b>	<b>generic Enocan push-button</b>	wireless trough ENO-GW-IQ	used for manual toggle of Zigbee wireless plugs
<b>ZIG-BEE PLUG</b>	<b>ZR-PLUG-xx-M</b>	wireless trough ZC-GW-485-EM and COM-NOK-IQ	Wireless plug, control and measure consumption of managed load

## Managed loads

Control device	Managed load requirement	Managed load example
<b>HEMS digital output, Power relay, toggling device power-supply, Zigbee plug</b>	Allowed to toggle power supply, resume operation when powered back	Water heater, Electrical heater, Light, washing machine, clothes dryer
<b>HEMS digital output, Control relay, device digital input</b>	Device with digital control signal	Furnace, Heat-pump, Chiller

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