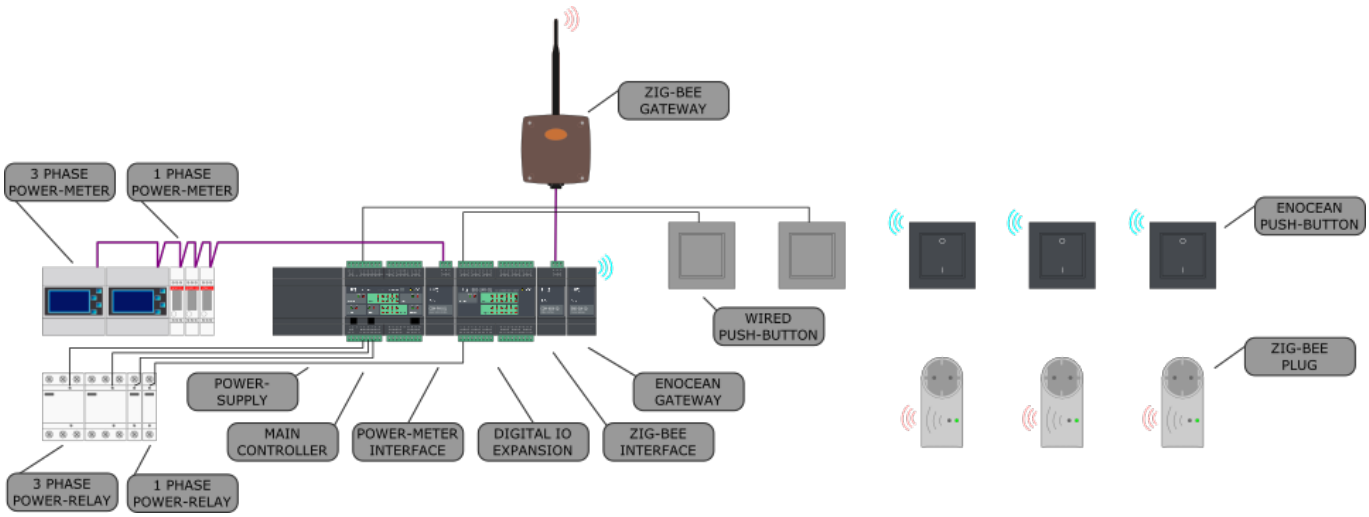
HEMS Devices



Control system

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

Accessories

item	code	connected to	function
3 PHASE POWER-METER	**SDM630DC**	RS485, 2 wire to power-meter interface	monitoring 3 phase power sources and consumers
1 PHASE POWER-METER	**SDM120C**	RS485, 2 wire to power-meter interface	monitoring single phase power sources and consumers
3 PHASE POWER-RELAY	**generic power relays, 230 VAC coil**	to HC-IQ or to BIO-24R-IQ digital output	control of 3 phase managed loads
1 PHASE POWER-RELAY		to HC-IQ or to BIO-24R-IQ digital output	control of single phase managed loads
WIRED PUSH-BUTTON	**generic push-button**	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
ENOCEAN PUSH-BUTTON	**generic Enocean push-button**	wireless trough ENO-GW-IQ	used for manual toggle of Zigbee wireless plugs
ZIG-BEE PLUG	**ZR-PLUG-xx-M**	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
HEMS digital output, Power relay, toggling device power-supply, Zigbee plug	Allowed to toggle power supply, resume operation when powered back	Water heater, Electrical heater, Light, washing machine, clothes dryer
HEMS digital output, Control relay, device digital input	Device with digital control signal	Furnace, Heat-pump, Chiller

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