

HEMS controller

Advanced HEMS controller



Model number:	HC-IQ
Mounting:	DIN rail, 6M, 106mm
Dimensions:	106x108x58mm

Applications

- Advanced HIQ system functionality
- Multiple software design:
 - Automation
 - Monitoring
 - Security and safety
 - Energy management

Features

- Advanced functions to HIQ system
- Connecting multiple systems into a logical unit
- PC, smart-phone and cloud connectivity

Safety standards

EN 50081-1, EN 61000-6-2, EN 61131-1, EN 61131-2, EN 61000-3-2, EN 61000-3-3

General description

Home controller is our most advanced home controller. Single hardware, multiple software design offers optimum combination between flexibility and functionality. Installers and even users can turn Home Controller into desired Controller just by selecting main functionality. Automation, home security, HEMS (home energy management system) and others are available. In case special functions are needed, your installer or system integrator can add custom functionality.

Technical specification

Relay outputs:	3A/250V
Communication:	Ethernet, 2x RS232, IEX bus
Nominal power rating:	24V(19-28VDC)
Power consumption	typ. 4W (CPU, no external load)
	typ. 5W (CPU + 8 relays, no external load)

Power output (24V at IEX-2):	2A
Weight gross:	400g
Ingress protection:	IP20
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c

Terminals

Power supply 24 V DC	24V	1	Power supply input	Power supply output	19	24V
	0V	2			20	0V
		3			21	C3
Radiator valves power supply	C0	4	Relay outputs 0-4 common	Digital input 0	22	IX0
Radiator valve 0	QX0	5	Relay output 0	Digital input 1	23	IX1
Radiator valve 1	QX1	6	Relay output 1	Digital input 2	24	IX2
Radiator valve 2	QX2	7	Relay output 2	Digital input 3	25	IX3
Radiator valve 3	QX3	8	Relay output 3	Digital input 4	26	IX4
Radiator valve 4	QX4	9	Relay output 4	Digital input 5	27	IX5
Contactor power supply	C1	10	Relay outputs 5-7 common	Digital input 6	28	IX6
AC contactor	QX5	11	Relay output 5	Digital input 7	29	IX7
Boiler contactor	QX6	12	Relay output 6	Digital inputs 8-9 common	30	C4
Chiller contactor	QX7	13	Relay output 7	Digital input 8 / HSC A	31	IX8A
		14		Digital input 8 / HSC B	32	IX9B
	QW0	15	Analog output 0	HSC Z	33	Z
	IW0	16	Analog input 0	Analog inputs & outputs common	34	C2
	IW1	17	Analog input 1	Analog input 2	35	IW2
	C2	18	Analog inputs & outputs common	Analog input 3	36	IW3



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Last update: 2017/10/06 07:48

