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		Digital inputs 0-7 common	**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**
Contactors 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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