HEMS controller

Advanced HEMS controller

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

Safety standards

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

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**
Load power supply	**C0**	**4**	Relay outputs 0-4 common	Digital input 0	**22**	**IX0**
Load 0	**QX0**	**5**	Relay output 0	Digital input 1	**23**	**IX1**
Load 1	**QX1**	**6**	Relay output 1	Digital input 2	**24**	**IX2**
Load 2	**QX2**	**7**	Relay output 2	Digital input 3	**25**	**IX3**
Load 3	**QX3**	**8**	Relay output 3	Digital input 4	**26**	**IX4**
Load 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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