

# HEMS controller

## Advanced HEMS controller



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



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