

# Home controller

## Advanced HEMS controller



|               |                     |
|---------------|---------------------|
| Model number: | <b>HC-IQ</b>        |
| 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         | <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>  |                                |                                | <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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