## HM500 series: Robust & state-of-the-art

### Key features
The HM500 series combines state-of-the-art features and a top performance HMI in an outstanding design. The ideal choice for satisfying a wide range of applications.

- **Available sizes:** 4.3", 7", 10.4", 13.3"
- **IP66 front panel**
- **Innovative, full-metal design**
- **Bright, 64K color LED technology display**
- **600MHz x 1, 1GHz ARM cortex A8 processor**
- **Microsoft Windows CE 6.0 operating system**
- **Ethernet, USB and integrated configurable serial ports**
- **SD card slot**
- **Gateway function, remote application control and online customer support**
- **Horizontal or vertical installation**
- **Low power consumption, with cooling system**
- **CE/UL certification**
- **Tropicalized electronics**

### HMWin: Programming environment

#### Key features
- **Simple, intuitive interface**
- **Project tree resource navigation**
- **Data displayed in numeric format, bar graph, analog indicators and images**
- **Multilanguage support with import and export function for texts**
- **Data acquisition and display in line or bar graphs**
- **Alarm management and event history**
- **User group and password management**
- **Audit Trail recipe management**
- **Remote monitoring and control with client-server architecture based on web technology (compatibility with smart-phones and tablets)**
- **Powerful JavaScript engine**
- **Large ready-to-use macro library**
- **Reports printable on USB printer or saveable as a PDF file on all internal and external locations**
- **Advanced HMI objects: scheduler and event planning, rotating menus, RSS Feeds, IP camera input**
- **On-line and off-line simulation**

### Quality vector graphics
- **Supports SVG vector graphics**
- **Dynamic object properties with tags**
- **Dynamic interaction between properties of different objects**
- **Animation**
- **TrueType font**
- **Large set of symbols and objects**

### Communication and Gateway
- **Integrated web server, FTP server**
- **Integrated web browser**
- **Supports VNC technology for remote desktop**
- **E-mail alerts**
- **Gateway function between different protocols**

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### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>HM504</th>
<th>HM507</th>
<th>HM514</th>
<th>HM513</th>
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<tbody>
<tr>
<td>Panel cutout (A x B)</td>
<td>136 x 96mm</td>
<td>176 x 136mm</td>
<td>276 x 221mm</td>
<td>326 x 256mm</td>
</tr>
<tr>
<td>Front panel (L x H)</td>
<td>147 x 107mm</td>
<td>187 x 147mm</td>
<td>287 x 232mm</td>
<td>336 x 267mm</td>
</tr>
<tr>
<td>Degree of protection (front)</td>
<td>IP66</td>
<td>IP66</td>
<td>IP66</td>
<td>IP66</td>
</tr>
<tr>
<td>Degree of protection (back)</td>
<td>IP20</td>
<td>IP20</td>
<td>IP20</td>
<td>IP20</td>
</tr>
<tr>
<td>Depth (D + T)</td>
<td>56 + 4mm</td>
<td>47 + 4mm</td>
<td>56 + 4mm</td>
<td>56 + 4mm</td>
</tr>
<tr>
<td>Panel cutout dimensions</td>
<td>136 x 96mm</td>
<td>176 x 136mm</td>
<td>276 x 221mm</td>
<td>326 x 256mm</td>
</tr>
<tr>
<td>Humidity</td>
<td>5 to 85% RH, non-condensing</td>
<td>5 to 85% RH, non-condensing</td>
<td>5 to 85% RH, non-condensing</td>
<td>5 to 85% RH, non-condensing</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 to +70°C</td>
<td>-20 to +70°C</td>
<td>-20 to +70°C</td>
<td>-20 to +70°C</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 to 50°C</td>
<td>0 to 50°C</td>
<td>0 to 50°C</td>
<td>0 to 50°C</td>
</tr>
<tr>
<td>Max. current consumption (typ.)</td>
<td>0.4A at 24V DC (max.)</td>
<td>0.7A at 24V DC (max.)</td>
<td>1A at 24V DC (max.)</td>
<td>1.2A at 24V DC (max.)</td>
</tr>
<tr>
<td>Voltage</td>
<td>24V DC (10 - 32V DC)</td>
<td>24V DC (10 - 32V DC)</td>
<td>24V DC (10 - 32V DC)</td>
<td>24V DC (10 - 32V DC)</td>
</tr>
<tr>
<td>Memory card</td>
<td>SD card slot</td>
<td>SD card slot</td>
<td>SD card slot</td>
<td>SD card slot</td>
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<tr>
<td>Expansion slots</td>
<td>1 optional plugin</td>
<td>2 optional plugins</td>
<td>2 optional plugins</td>
<td>2 optional plugins</td>
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<tr>
<td>Battery</td>
<td>Rechargeable battery</td>
<td>Rechargeable battery</td>
<td>Rechargeable battery</td>
<td>Rechargeable battery</td>
</tr>
<tr>
<td>Real Time Clock</td>
<td>Yes, with battery</td>
<td>Yes, with battery</td>
<td>Yes, with battery</td>
<td>Yes, with battery</td>
</tr>
<tr>
<td>Multilanguage management</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Embedded systems</td>
<td>PRO/RS-150</td>
<td>PRO/RS-150</td>
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<td>PRO/RS-150</td>
</tr>
<tr>
<td>Ethernet port</td>
<td>2 10/100Mbit with integrated switch</td>
<td>2 10/100Mbit with integrated switch</td>
<td>2 10/100Mbit with integrated switch</td>
<td>2 10/100Mbit with integrated switch</td>
</tr>
<tr>
<td>USB port</td>
<td>1 Host interface version 2.0</td>
<td>2 Host interfaces</td>
<td>2 Host interfaces</td>
<td>2 Host interfaces</td>
</tr>
<tr>
<td>Display</td>
<td>480 x 272, WQVGA</td>
<td>800 x 480, WVGA</td>
<td>800 x 600, SVGA</td>
<td>1280 x 800, WXGA</td>
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<tr>
<td>Display size</td>
<td>4.3&quot; TFT 16:9</td>
<td>7&quot; TFT 16:9</td>
<td>10.4&quot; TFT</td>
<td>13.3&quot; TFT 16:9</td>
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<tr>
<td>Part number</td>
<td>AIHM504</td>
<td>AIHM507</td>
<td>AIHM514</td>
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### Website
- www.panasonic-electric-works.com
**Key features**

- **HM500 series**: Robust & state-of-the-art
  - On-line and off-line simulation
  - Advanced HMI objects: scheduler and event planning
  - Reports printable on USB printer or saveable as a PDF file
  - Powerful JavaScript engine
  - Remote monitoring and control with client-server architecture based on web technology (compatible with smartphones and tablets)
  - Comprehensive support for import and export function for texts
  - Data acquisition and display in line or bar graphs
  - Multilanguage support with import and export function for texts
  - Data displayed in numeric format, bar graph, analog indicators and images
  - Project tree resource navigation
  - Simple, intuitive interface
  - Tropicalized electronics
- **HMWin**: Programming environment
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  - Project tree resource navigation
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  - Large ready-to-use macro library
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**Key features**

- **HMWin**: Programming environment

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- Integrated web server, FTP server
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- Gateway function between different protocols

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**Specifications**

- **Display**: 4.3” TFT, 16:9, 640 x 232
- **CPU**: 600MHz 800MHz 1GHz ARM cortex A8 processor
- **Memory**: 128MB flash
- **Battery**: Rechargeable battery
- **Real Time Clock**: Yes, with battery
- **Multilanguage management**: Yes
- **Trends**: Yes
- **Password**: Yes
- **Recipes**: Yes
- **Alarm history**: Yes
- **Alarms**: Yes
- **TrueType font**: Yes
- **Dynamic objects**: Yes
- **Vector graphics**: Yes, supports SVG
- **USB port**: 1 Host interface version 2.0
- **Ethernet port**: 2 10/100Mbit with integrated switch
- **Serial port (Universal)**: RS232, RS485, RS422,
- **User memory**: 128MB flash
- **Portrait mode**: Yes
- **Touchscreen**: Analog resistive
- **Colors**: 64K
- **Dimming**: Yes
- **Brightness**: 150 cd/m² typ.
- **Backlight**: LED
- **Resolution**: 480 x 272, WQVGA
- **Part number**: AIHM504 AIHM507 AIHM510 AIHM513
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