

# Product datasheet

Specifications



7"W touch panel display, 2COM,  
2Ethernet, USB host&device,  
24VDC

HMIST6400

## Main

|                           |   |
|---------------------------|---|
| Range of product          | Harmony ST6   |
| Product or component type | Touch panel screen  |
| Software package          | EcoStruxure Operator Terminal Expert                                  |
| Processor name            | ARM Cortex-A8   |
| Processor frequency       | 800 MHz   |
| Memory description        | 1 GB device memory<br>128 MB user data memory<br>512 KB backup memory |

## Complementary

|                           |  |
|---------------------------|--|
| Display size              | 7 inch   |
| Display type              | Colour TFT LCD   |
| Display colour            | 16 million colours   |
| Display resolution        | 800 x 480 pixels WVGA  |
| Touch panel               | Single touch analogue resistive  |
| Backlight lifespan        | 50000 hours with white   |
| Brightness                | 16 levels  |
| Character font            | ASCII<br>ASCII (European characters)<br>Chinese (simplified Chinese)<br>Japanese (ANK, Kanji)<br>Katakana<br>Korean<br>Taiwanese (traditional Chinese)   |
| [Us] rated supply voltage | 24 V DC (+/- 20 %)   |
| Power consumption in W    | 9 W  |
| Inrush current            | 30 A   |
| Local signalling          | Status LED green, steady for offline<br>Status LED green, steady for operating<br>Status LED green, flashing for operating<br>Status LED green, faded for stand-by<br>Status LED orange, flashing for software starting up<br>Status LED red, steady for power supply (ON)<br>Status LED red, flashing for operating<br>Status LED red, off for power supply (OFF) |
| Number of pages           | 200 application pages  |
| Port Ethernet             | 10/100BASE   |

|                                   |  |
|-----------------------------------|--|
| <b>Integrated connection type</b> | 1 COM1 serial link - 1 SUB-D 9-pin female - RS232C (rate: 2400...115200 bps)bottom<br>1 COM2 serial link - female RJ45 - RS485 (rate: 2400...115200 bps)back<br>COM2 serial link (rate: 2400...187500 bps)back<br>1 USB 2.0 type Abottom<br>1 USB 2.0 type micro B<br>2 Ethernet |
| <b>Supply</b>                     | External supply  |
| <b>Realtime clock</b>             | Built-in 0...50 °C<br>Built-in 10...90 % RH  |
| <b>Downloadable protocols</b>     | Modbus<br>Uni-TE<br>Third party protocols  |
| <b>Product brand</b>              | Schneider Electric Modicon<br>Mitsubishi Melsec<br>Omron Sysmac<br>Rockwell Automation Allen-Bradley<br>Siemens Simatic  |
| <b>Fixing mode</b>                | By 4 screws, mounting on 1.6...5 mm thick panel conforming to UL 61010-2-201<br>By 4 screws conforming to IEC 61131-2<br>By 4 screws conforming to IEC 61000-6-2   |
| <b>Enclosure material</b>         | PC   |
| <b>Front material</b>             | Aluminium  |
| <b>Marking</b>                    | CE   |
| <b>Cut-out dimensions</b>         | 190 x 135 mm panel cut dimension   |
| <b>Height</b>                     | 153 mm   |
| <b>width</b>                      | 208 mm   |
| <b>Depth</b>                      | 45 mm  |
| <b>Net weight</b>                 | 0.8 kg   |

## Environment

|  |   |
|--|---|
| <b>Immunity to microbreaks</b>               | 5 ms  |
| <b>Standards</b>                             | IEC 61000-6-4<br>IEC 61000-6-2<br>IEC 61131-2<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201 |
| <b>Product certifications</b>                | CSA<br>CE<br>UKCA   |
| <b>Directives</b>                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility            |
| <b>Ambient air temperature for operation</b> | 0...50 °C   |
| <b>Ambient air temperature for storage</b>   | -20...60 °C   |
| <b>Relative humidity</b>                     | 10...90 % non-condensing  |
| <b>Operating altitude</b>                    | 2000 m  |
| <b>IP degree of protection</b>               | IP20 (rear panel) conforming to IEC 61131-2<br>IP65 (front panel) conforming to IEC 61131-2 |
| <b>NEMA degree of protection</b>             | NEMA 4 front panel (indoor use)<br>NEMA 13 front panel (in enclosure)                       |
| <b>Shock resistance</b>                      | 147 m/s <sup>2</sup> for 11 ms (X, Y, Z directions for 3 times) conforming to IEC 61131-2   |

---

|                             |  |
|-----------------------------|--|
| <b>Vibration resistance</b> | +/- 3.5 mm (f = 5...9 Hz) X, Y, Z directions for 10 cycles (approx. 100 min)<br>conforming to IEC 61131-2<br>9.8 m/s <sup>2</sup> (f = 9...150 Hz) |
|-----------------------------|--|

---

|                                      |   |
|--------------------------------------|---|
| <b>Electromagnetic compatibility</b> | Electrical fast transient/burst immunity test - test level: 2 kV (power ports) conforming to IEC 61000-4-4<br>Electrical fast transient/burst immunity test - test level: 1 kV (signal ports)<br>Electrostatic discharge immunity test - test level: 6 kV (contact discharge) conforming to IEC 61000-4-2 level 3<br>Electrostatic discharge immunity test - test level: 8 kV (air discharge) |
|--------------------------------------|---|

## Packing Units

---

|                               |     |
|-------------------------------|-----|
| <b>Unit Type of Package 1</b> | PCE |
|-------------------------------|-----|

---

|                                     |   |
|-------------------------------------|---|
| <b>Number of Units in Package 1</b> | 1 |
|-------------------------------------|---|

---

|                         |          |
|-------------------------|----------|
| <b>Package 1 Height</b> | 9.200 cm |
|-------------------------|----------|

---

|                        |           |
|------------------------|-----------|
| <b>Package 1 Width</b> | 17.500 cm |
|------------------------|-----------|

---

|                         |           |
|-------------------------|-----------|
| <b>Package 1 Length</b> | 27.000 cm |
|-------------------------|-----------|

---

|                         |          |
|-------------------------|----------|
| <b>Package 1 Weight</b> | 1.014 kg |
|-------------------------|----------|

---

|                               |     |
|-------------------------------|-----|
| <b>Unit Type of Package 2</b> | S03 |
|-------------------------------|-----|

---

|                                     |   |
|-------------------------------------|---|
| <b>Number of Units in Package 2</b> | 6 |
|-------------------------------------|---|

---

|                         |           |
|-------------------------|-----------|
| <b>Package 2 Height</b> | 30.000 cm |
|-------------------------|-----------|

---

|                        |           |
|------------------------|-----------|
| <b>Package 2 Width</b> | 30.000 cm |
|------------------------|-----------|

---

|                         |           |
|-------------------------|-----------|
| <b>Package 2 Length</b> | 40.000 cm |
|-------------------------|-----------|

---

|                         |          |
|-------------------------|----------|
| <b>Package 2 Weight</b> | 6.457 kg |
|-------------------------|----------|

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[How this information helps you >](#)

### Environmental footprint

|   |     |
|---|-----|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 680 |
|---|-----|

|                          |   |
|--------------------------|---|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
|--------------------------|---|

## Use Better

### Materials and Substances

|  |    |
|--|----|
| Packaging made with recycled cardboard | No |
|--|----|

|                                      |    |
|--------------------------------------|----|
| Packaging without single use plastic | No |
|--------------------------------------|----|

|                   |  |
|-------------------|--|
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
|-------------------|--|

|             |                                      |
|-------------|--------------------------------------|
| SCIP Number | 20694bec-44d9-42c3-8fdd-3861ce15e3ab |
|-------------|--------------------------------------|

|                  |                                   |
|------------------|-----------------------------------|
| REACH Regulation | <a href="#">REACH Declaration</a> |
|------------------|-----------------------------------|

|                       |  |
|-----------------------|--|
| China RoHS Regulation | <a href="#">China RoHS declaration</a> |
|-----------------------|--|

## Use Again

### Repack and remanufacture

WEEE



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

---

Take-back

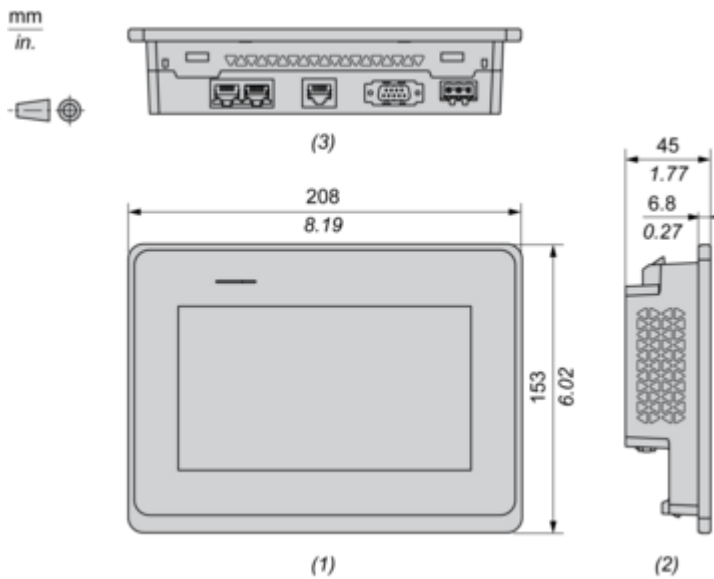
No

---

Dimensions Drawings

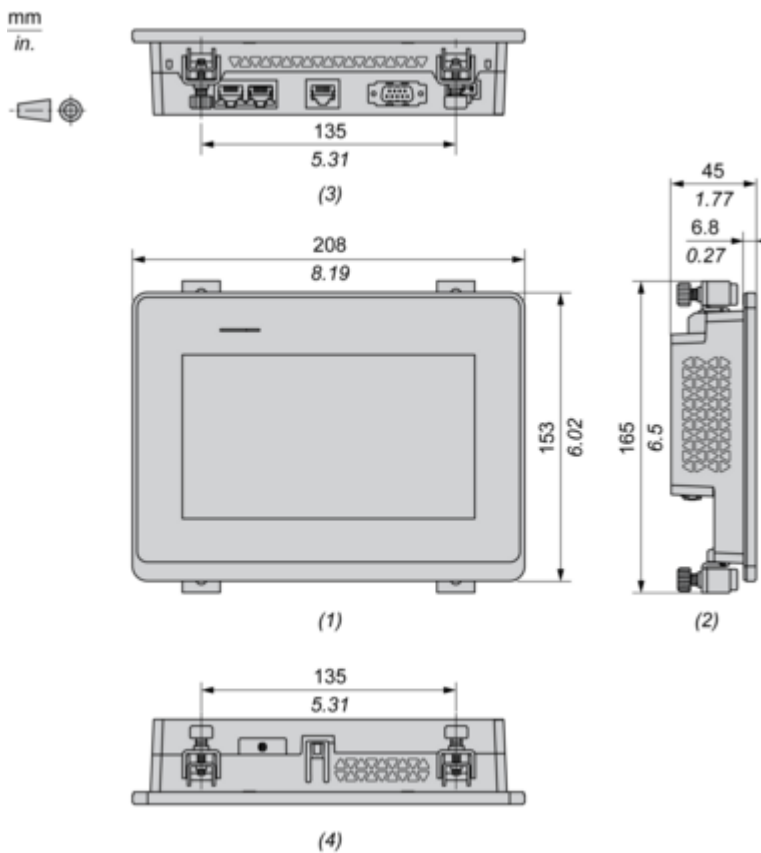
Dimensions

External Dimensions



- (1) : Front
- (2) : Left
- (3) : Bottom

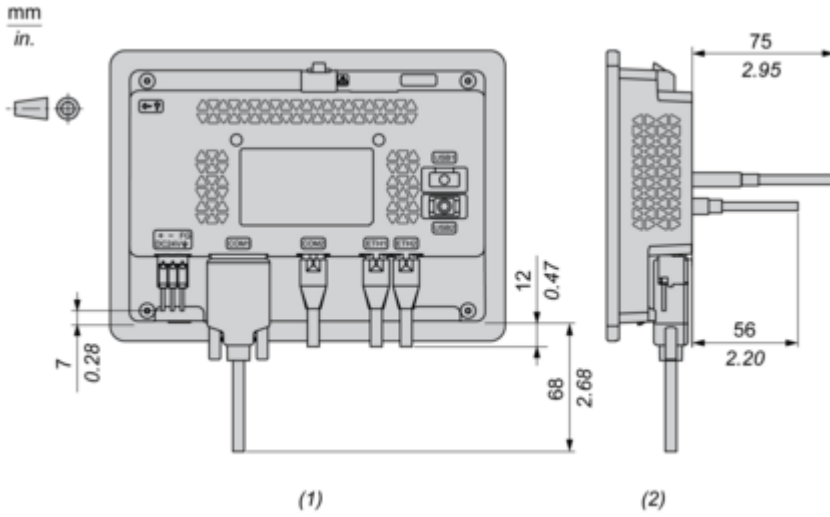
Dimensions with Installation Fasteners



- (1) : Front

- (2) : Left
- (3) : Bottom
- (4) : Top

Dimensions with Cables



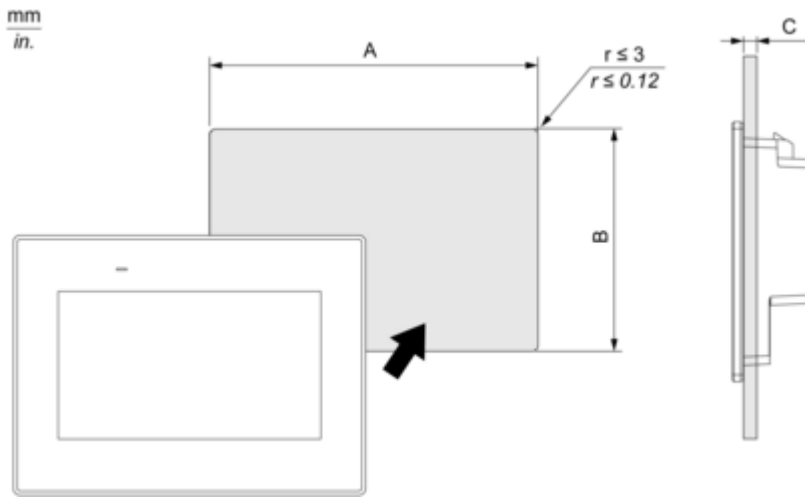
- (1) : Rear
- (2) : Right

Mounting and Clearance

Mounting

---

Panel Cut Dimensions

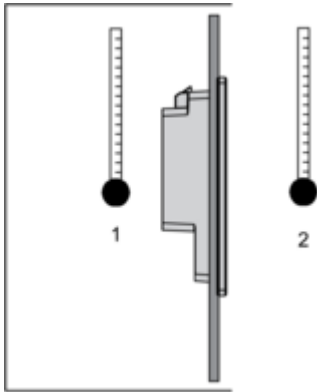


| A            |                  | B            |                  | C       |            |
|--------------|------------------|--------------|------------------|---------|------------|
| mm           | in.              | mm           | in.              | mm      | in.        |
| 190 (+1, -0) | 7.48 (+0.04, -0) | 135 (+1, -0) | 5.31 (+0.04, -0) | 1.6...5 | 0.06...0.2 |

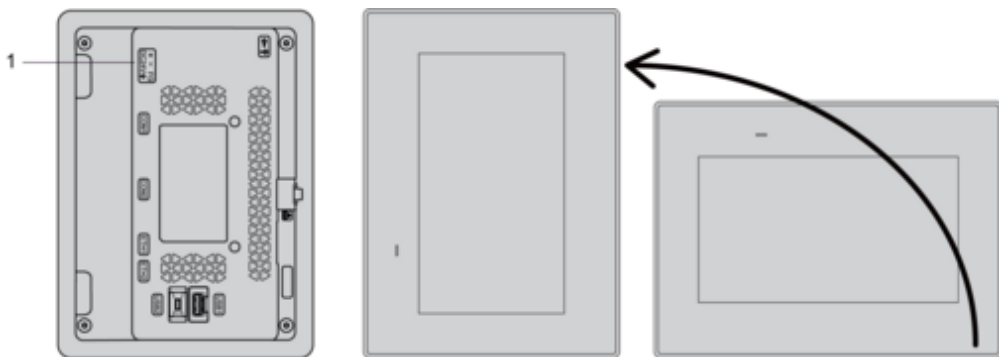


Installation Requirements

---

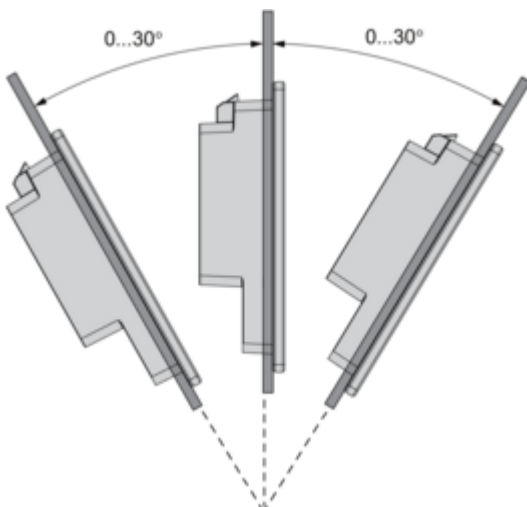


- 1 : Internal temperature
- 2 : External temperature



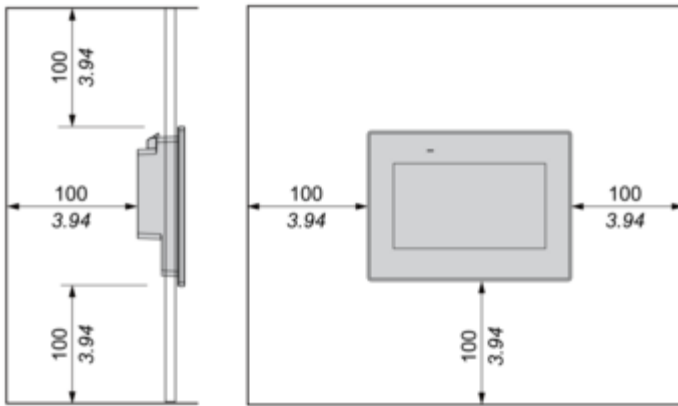
- 1 : Power connector

Mounting Angle



Clearance

mm  
in.





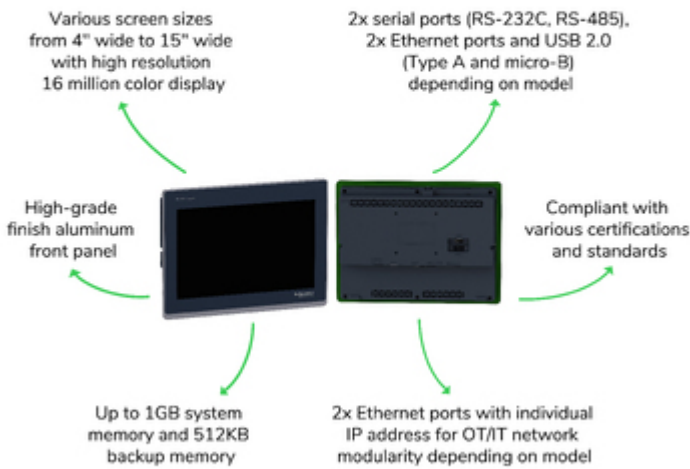
Offer Marketing Illustration

Product benefits / Features

---

## Technical Benefits

### Harmony ST6 Basic HMI



Offer Marketing Illustration

Product benefits / Features

---

The infographic features a central image of a black HMI screen. Surrounding it are six circular icons, each with a corresponding text block describing a feature. The background is a solid green color.

### Features

#### Harmony ST6 Basic HMI

- Better visualization of machine data and operation performance** (Icon: Bar chart with a play button)
- Cybersecurity enhancement with secure boot and encrypted transfer** (Icon: Padlock)
- User-friendly protocols allowing you to easily connect your OT devices to IT with OPC-UA** (Icon: Network diagram)
- Long-term stable supply, and Global Service and Support** (Icon: Handshake)
- Enable remote monitoring and remote maintenance securely by PC, tablet and smartphone** (Icon: House with an arrow pointing out)
- Create highly responsive screens with ease by configuration software "EcoStruxure" Operator Terminal Expert** (Icon: Document with a play button)

Image of product / Alternate images

Alternative

---



