

# HMIST6500

Touch panel screen, Harmony ST6, 10"W display, 2COM, 2Ethernet, USB host&device, 24 VDC



## Main

|                           |                                      |
|---------------------------|--------------------------------------|
| Range of product          | Harmony ST6                          |
| Product or component type | Touch panel screen                   |
| Software designation      | EcoStruxure Operator Terminal Expert |
| Processor name            | ARM Cortex-A8                        |

## Complementary

|                            |                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display size               | 10 inch                                                                                                                                                                                                                                                                                                                                                            |
| Display type               | Colour TFT LCD                                                                                                                                                                                                                                                                                                                                                     |
| Display colour             | 16 million colours                                                                                                                                                                                                                                                                                                                                                 |
| Display resolution         | 1024 x 600 pixels WSVGA                                                                                                                                                                                                                                                                                                                                            |
| 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 %)                                                                                                                                                                                                                                                                                                                                                 |
| 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) |
| Power consumption in W     | 12.6 W                                                                                                                                                                                                                                                                                                                                                             |
| Number of pages            | 200 application pages                                                                                                                                                                                                                                                                                                                                              |
| Processor frequency        | 800 MHz                                                                                                                                                                                                                                                                                                                                                            |
| Port Ethernet              | 10/100BASE                                                                                                                                                                                                                                                                                                                                                         |
| Memory description         | Device memory 1 GB<br>Backup memory 512 kB<br>User data memory 128 MB                                                                                                                                                                                                                                                                                              |
| Integrated connection type | 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                                                                                   |
| Supply                     | External supply                                                                                                                                                                                                                                                                                                                                                    |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                        |                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Realtime clock         | Built-in 0...50 °C<br>Built-in 10...90 % RH                                                                                                                     |
| Downloadable protocols | Modbus<br>Uni-TE<br>Third party protocols                                                                                                                       |
| Product brand          | Schneider Electric Modicon<br>Mitsubishi Melsec<br>Omron Sysmac<br>Rockwell Automation Allen-Bradley<br>Siemens Simatic                                         |
| Fixing mode            | By 4 screws, mounting on 1.6...5 mm thick panel conforming to UL 61010-2-201<br>By 4 screws conforming to EN 61131-2<br>By 4 screws conforming to IEC 61000-6-2 |
| Enclosure material     | PC                                                                                                                                                              |
| Front material         | Aluminium                                                                                                                                                       |
| Marking                | CE                                                                                                                                                              |
| Cut-out dimensions     | 255 x 185 mm panel cut dimension                                                                                                                                |
| Height                 | 203 mm                                                                                                                                                          |
| Width                  | 273 mm                                                                                                                                                          |
| Depth                  | 47 mm                                                                                                                                                           |
| Net weight             | 1.3 kg                                                                                                                                                          |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks               | 10 ms                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards                             | EN 61000-6-4<br>EN 61000-6-2<br>EN 61131-2<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201                                                                                                                                                                                                                                                                                                         |
| Product certifications                | CSA<br>CE                                                                                                                                                                                                                                                                                                                                                                                        |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility                                                                                                                                                                                                                                                                                                                 |
| Ambient air temperature for operation | 0...50 °C                                                                                                                                                                                                                                                                                                                                                                                        |
| Ambient air temperature for storage   | -20...60 °C                                                                                                                                                                                                                                                                                                                                                                                      |
| Relative humidity                     | 10...90 % non-condensing                                                                                                                                                                                                                                                                                                                                                                         |
| Operating altitude                    | 2000 m                                                                                                                                                                                                                                                                                                                                                                                           |
| IP degree of protection               | IP20 (rear panel) conforming to IEC 61131-2<br>IP65 (front panel) conforming to IEC 61131-2                                                                                                                                                                                                                                                                                                      |
| NEMA degree of protection             | NEMA 4 front panel (indoor use)<br>NEMA 13 front panel (in enclosure)                                                                                                                                                                                                                                                                                                                            |
| Shock resistance                      | 147 m/s <sup>2</sup> for 11 ms (X, Y, Z directions for 3 times) conforming to EN/IEC 61131-2                                                                                                                                                                                                                                                                                                     |
| Vibration resistance                  | +/- 3.5 mm (f = 5...9 Hz) X, Y, Z directions for 10 cycles (approx. 100 min) conforming to EN/IEC 61131-2<br>9.8 m/s <sup>2</sup> (f = 9...150 Hz)                                                                                                                                                                                                                                               |
| Electromagnetic compatibility         | 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 EN/IEC 61000-4-2 level 3<br>Electrostatic discharge immunity test - test level: 8 kV (air discharge) |

## Packing Units

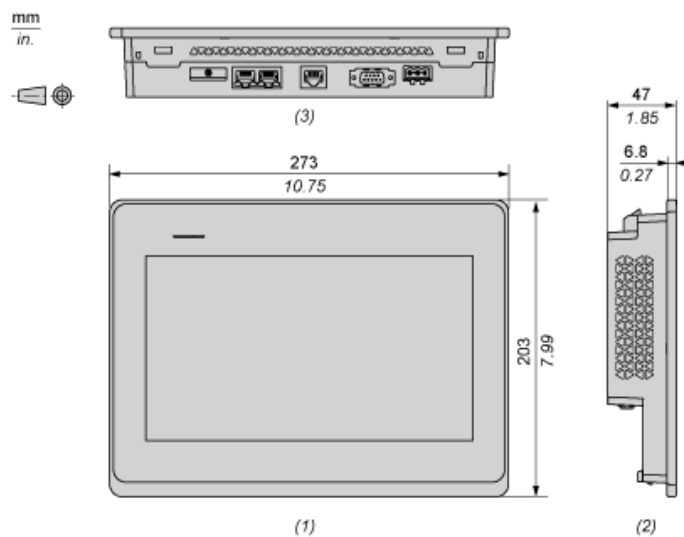
|                        |            |
|------------------------|------------|
| Unit Type of Package 1 | PCE        |
| Package 1 Weight       | 1260.000 g |
| Package 1 Height       | 4.700 cm   |
| Package 1 width        | 20.300 cm  |
| Package 1 Length       | 27.300 cm  |

## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                              |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

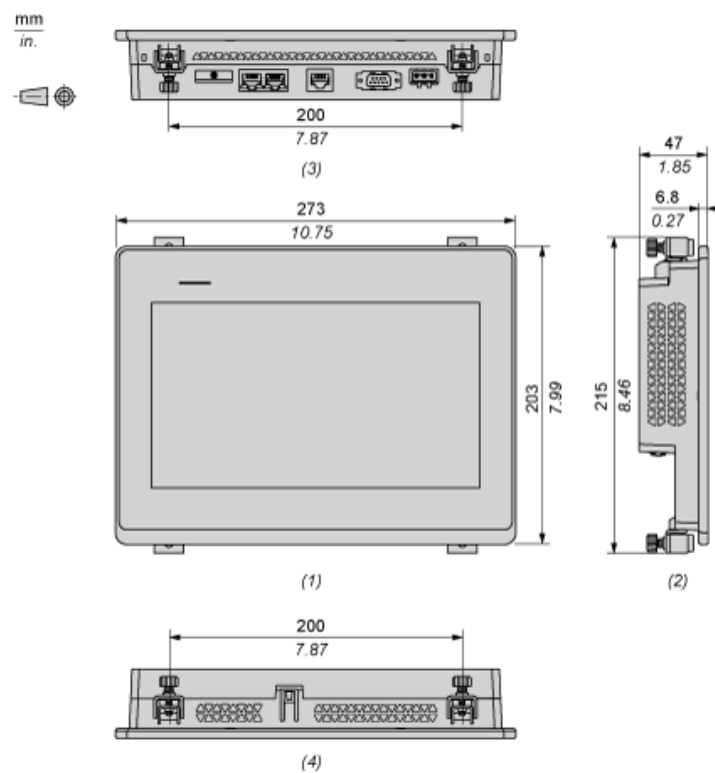
## Dimensions

### External Dimensions



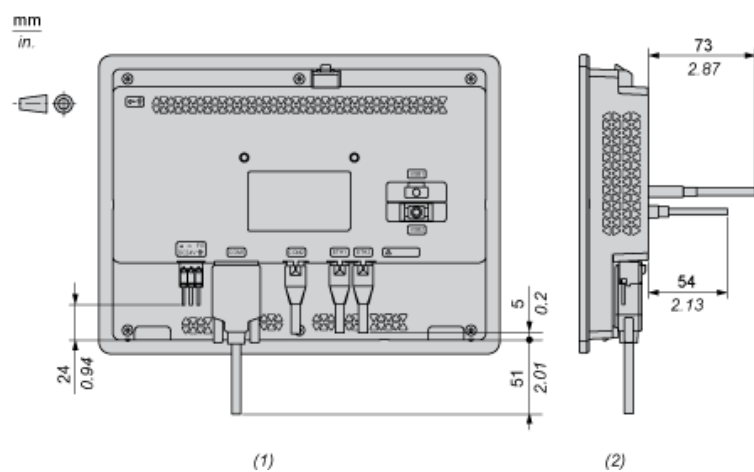
- (1) : Front  
(2) : Left  
(3) : Bottom

### Dimensions with Installation Fasteners



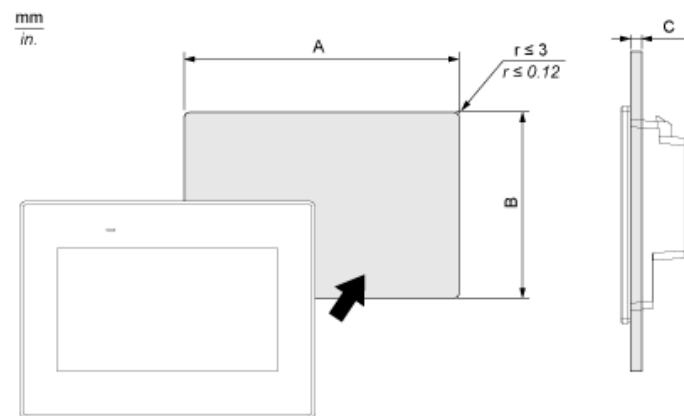
- (1) : Front  
(2) : Left  
(3) : Bottom  
(4) : Top

## Dimensions with Cables



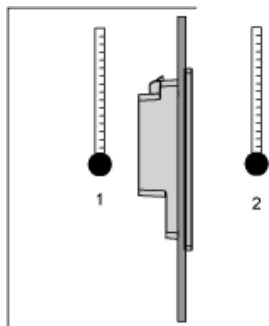
## Mounting

## Panel Cut Dimensions

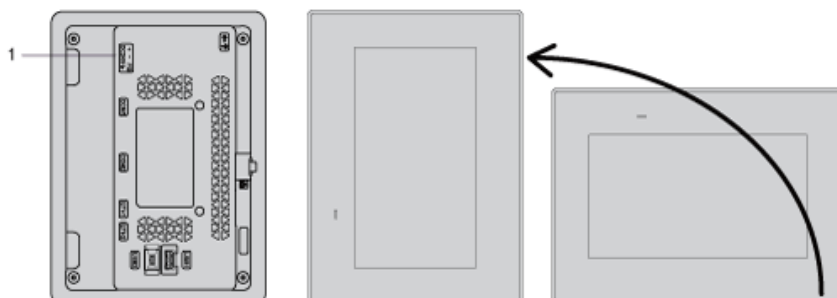


| A            |                   | B            |                  | C       |            |
|--------------|-------------------|--------------|------------------|---------|------------|
| mm           | in.               | mm           | in.              | mm      | in.        |
| 255 (+1, -0) | 10.04 (+0.04, -0) | 185 (+1, -0) | 7.28 (+0.04, -0) | 1.6...5 | 0.06...0.2 |

## Installation Requirements

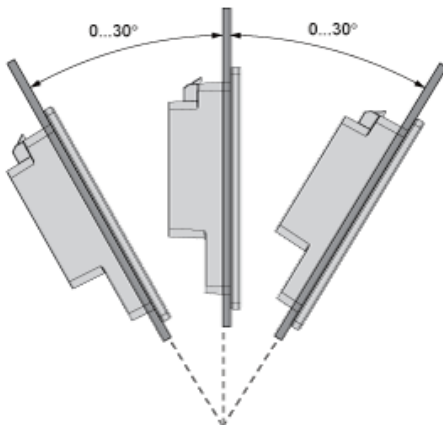


- 1 : Internal temperature  
2 : External temperature



- 1: Power connector

## Mounting Angle



## Clearance

