

Product data sheet

Specifications



touch panel screen, Harmony ST6,
10inch wide display, 2COM,
2Ethernet, USB host and device,
24V DC

HMIST6500

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 512 KB backup memory 128 MB user data memory

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 ASCII (European characters) Chinese (simplified Chinese) Japanese (ANK, Kanji) Katakana Korean Taiwanese (traditional Chinese)
[Us] rated supply voltage	24 V DC (+/- 20 %)
Power consumption in W	12.6 W
Inrush current	30 A
Local signalling	Status LED green, steady for offline Status LED green, steady for operating Status LED green, flashing for operating Status LED green, faded for stand-by Status LED orange, flashing for software starting up Status LED red, steady for power supply (ON) Status LED red, flashing for operating Status LED red, off for power supply (OFF)
Number of pages	200 application pages
Port Ethernet	10/100BASE

Integrated connection type	1 COM1 serial link - 1 SUB-D 9-pin female - RS232C (rate: 2400...115200 bps)bottom 1 COM2 serial link - female RJ45 - RS485 (rate: 2400...115200 bps)back COM2 serial link (rate: 2400...187500 bps)back 1 USB 2.0 type Abottom 1 USB 2.0 type micro B 2 Ethernet
Supply	External supply
Realtime clock	Built-in 0...50 °C Built-in 10...90 % RH
Downloadable protocols	Modbus Uni-TE Third party protocols
Product brand	Schneider Electric Modicon Mitsubishi Melsec Omron Sysmac Rockwell Automation Allen-Bradley Siemens Simatic
Fixing mode	By 4 screws, mounting on 1.6...5 mm thick panel conforming to UL 61010-2-201 By 4 screws conforming to IEC 61131-2 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
With Schneider Logo	True

Environment

Immunity to microbreaks	10 ms
Standards	IEC 61000-6-4 IEC 61000-6-2 IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201
Product certifications	CSA CE UKCA
Directives	2014/35/EU - low voltage directive 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 IP65 (front panel) conforming to IEC 61131-2
NEMA degree of protection	NEMA 4 front panel (indoor use) NEMA 13 front panel (in enclosure)
Shock resistance	147 m/s ² for 11 ms (X, Y, Z directions for 3 times) conforming to IEC 61131-2

Vibration resistance	+/- 3.5 mm (f = 5...9 Hz) X, Y, Z directions for 10 cycles (approx. 100 min) conforming to IEC 61131-2 9.8 m/s ² (f = 9...150 Hz)
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Electromagnetic compatibility	Electrical fast transient/burst immunity test - test level: 2 kV (power ports) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 1 kV (signal ports) Electrostatic discharge immunity test - test level: 6 kV (contact discharge) conforming to IEC 61000-4-2 level 3 Electrostatic discharge immunity test - test level: 8 kV (air discharge)
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	12.500 cm
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Package 1 Width	28.000 cm
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Package 1 Length	34.500 cm
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Package 1 Weight	1.825 kg
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Unit Type of Package 2	S04
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Number of Units in Package 2	4
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Package 2 Height	30.000 cm
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Package 2 Width	40.000 cm
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Package 2 Length	60.000 cm
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Package 2 Weight	8.300 kg
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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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Total lifecycle Carbon footprint 977

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

F-gas free Only air and vacuum used for insulation / breaking, no F-gas including SF6

Packaging made with recycled cardboard Yes

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 [REACH Declaration](#)

California proposition 65 **WARNING:** This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Halogen-free status Product contains halogen above thresholds

PVC free No

Silicone-free No

Use Again

Repack and remanufacture

End of life manual availability [End of Life Information](#)

Removable battery User replaceable

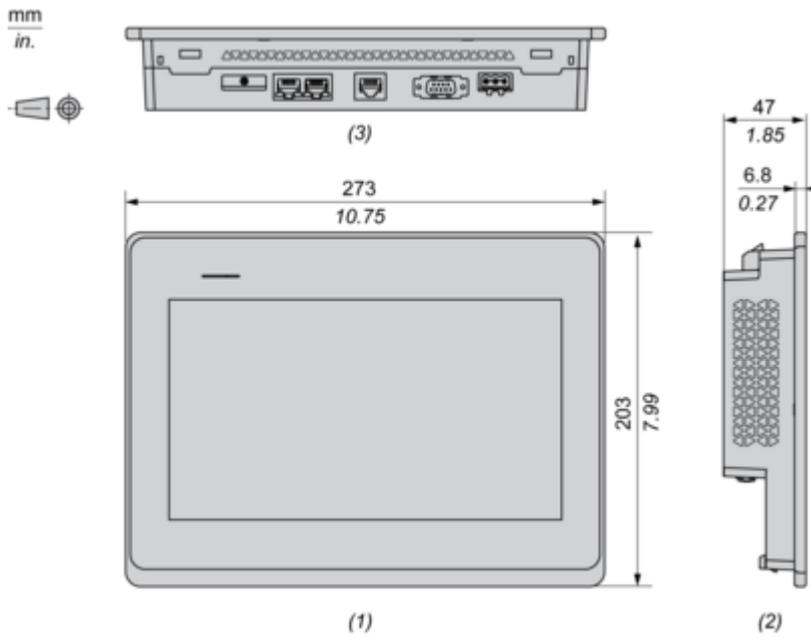
Take-back No

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

Dimensions Drawings

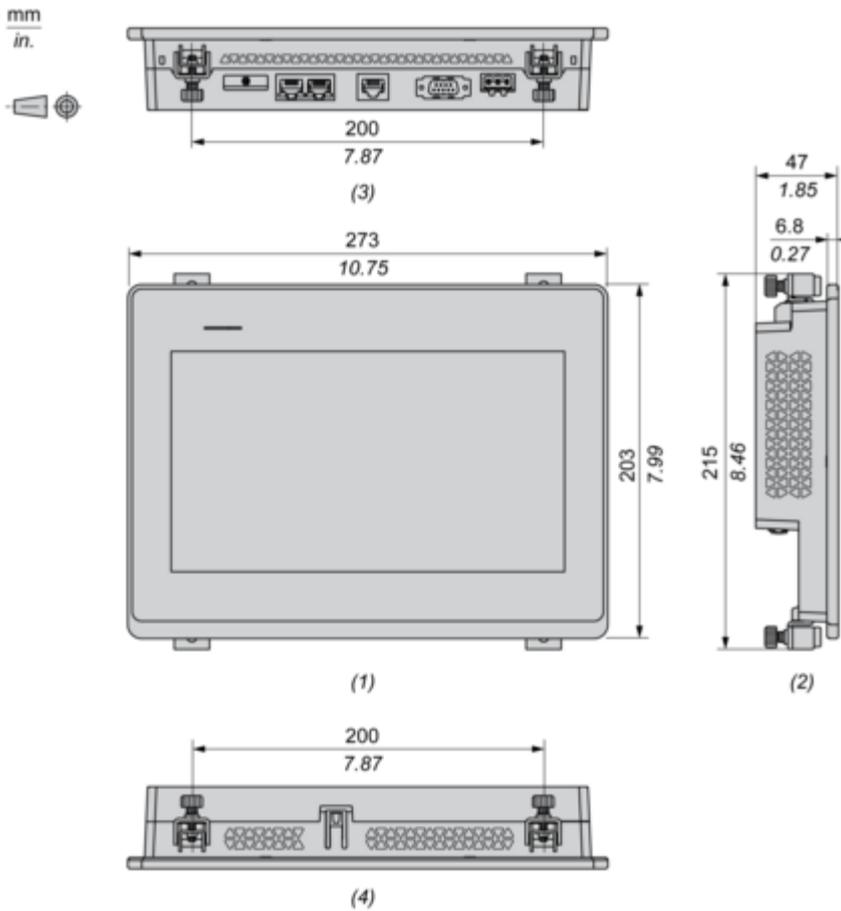
Dimensions

External Dimensions



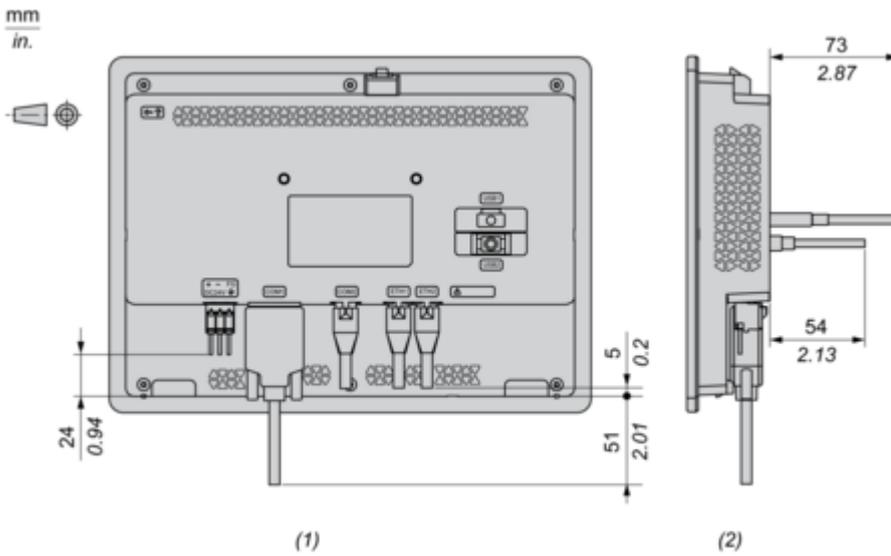
- (1) : Front
- (2) : Left
- (3) : Bottom

Dimensions with Installation Fasteners



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

Dimensions with Cables

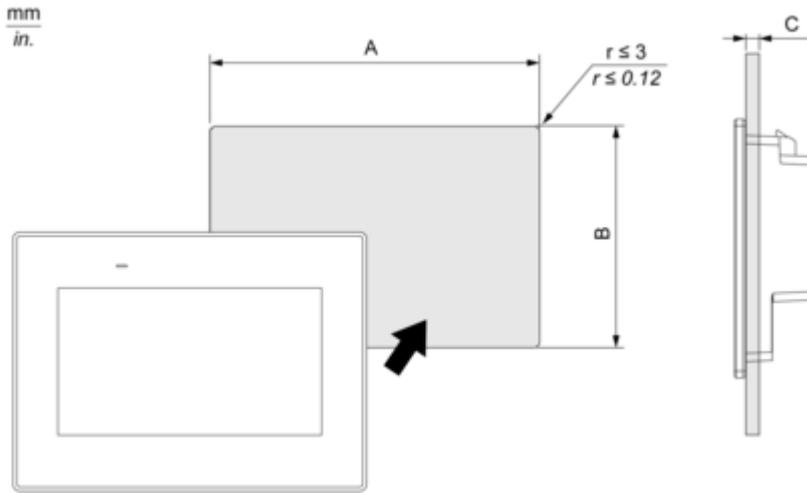


- (1) : Rear
- (2) : Right

Mounting and Clearance

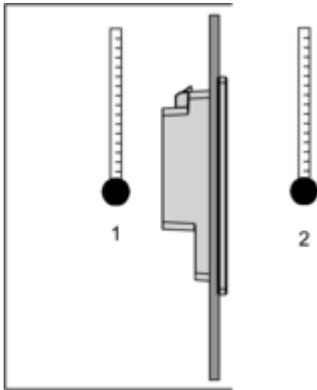
Mounting

Panel Cut Dimensions

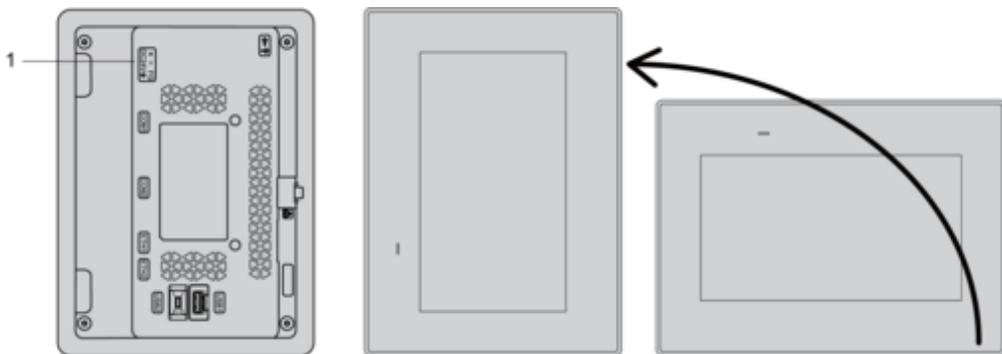


A		B		C	
mm	in.	mm	in.	mm	in.
255 (+1, -0)	10.04 (+0.04, -0)	185 (+1, -0)	7.28 (+0.04, -0)	1.6...5	0.06...0.2

Installation Requirements

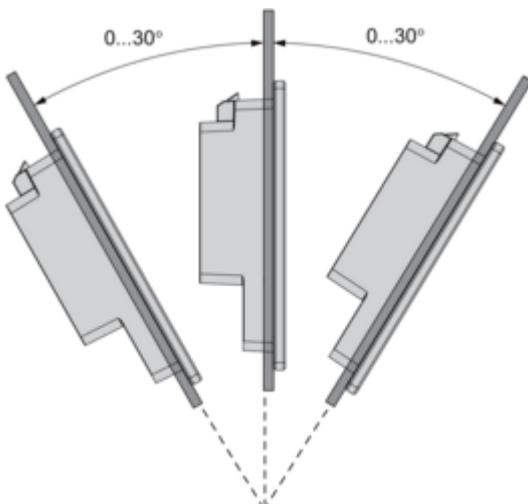


- 1 : Internal temperature
- 2 : External temperature



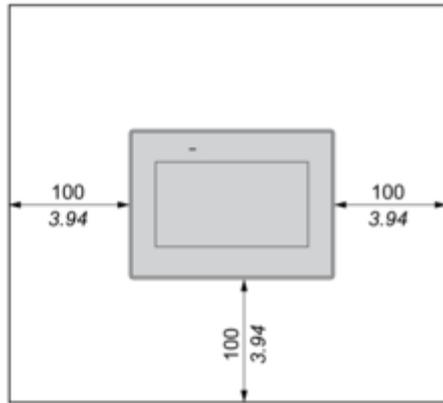
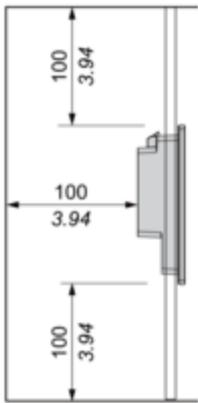
- 1 : Power connector

Mounting Angle



Clearance

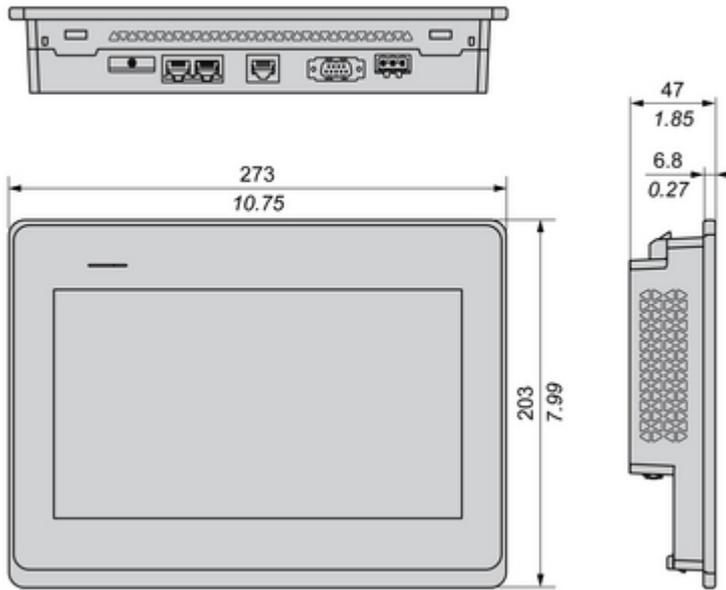
mm
in.



Technical Illustration

Dimensions

mm
in.



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)

Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony ST6 Basic HMI

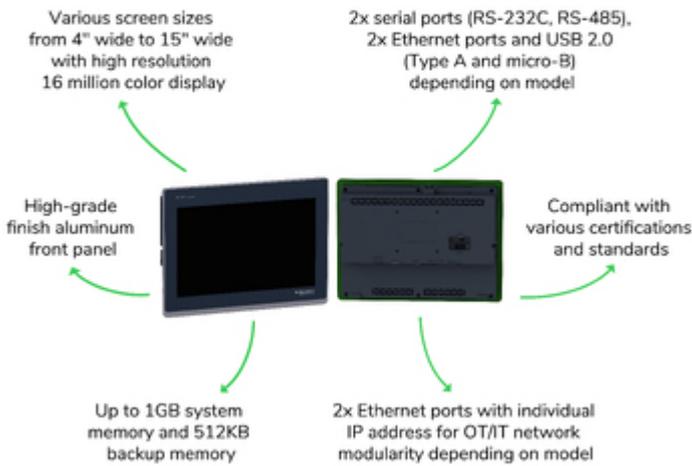


Image of product / Alternate images

Alternative



