

# Product data sheet

Specifications



advanced touchscreen panel,  
Harmony GTO, 320 x 240pixels  
QVGA, 3.5inch TFT, 96MB

HMIGTO1310

## Main

Range of product	Harmony GTO
Product or component type	Advanced touchscreen panel
Display colour	65536 colours
Display size	3.5 inch
Supply	External source
Control button type	6 operation defined using Vijeo Designer push-button key F1...F6
Operating system	Harmony
Battery type	Lithium battery for internal RAM, autonomy: 100 days, charging time = 5 day(s), battery life = 10 year(s)

## Complementary

Terminal type	Touchscreen display
Display type	Backlit colour TFT LCD
Display resolution	320 x 240 pixels QVGA
Touch sensitive zone	1024 x 1024
Touch panel	Resistive film, 1000000 cycles
Backlight lifespan	50000 hours white at 25 °C
Brightness	16 levels - control by touch panel 16 levels - control by software
Character font	Chinese (simplified Chinese) Korean Taiwanese (traditional Chinese) Japanese (ANK, Kanji) ASCII (European characters)
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.2...28.8 V
Inrush current	30 A
Maximum power consumption in W	5.2 W when power is not supplied to external devices 4.2 W when backlight is OFF 4.3 W when backlight is dimmed 9.6 W
Local signalling	Status LED green, steady for offline Status LED green, steady for operating Status LED orange, flashing for software starting up Status LED red, steady for power supply (ON) Status LED clear, faded for power supply (OFF)
Software designation	Vijeo Designer configuration software >= V6.1
Memory description	Flash EPROM, 96 MB

<b>Data backed up</b>	512 KB internal RAM (SRAM)
<b>Data storage equipment</b>	SD card, <= 32 GB SDHC card, <= 32 GB
<b>Downloadable protocols</b>	Schneider Electric Modicon Modbus Schneider Electric Modicon Uni-TE Schneider Electric Modicon Modbus Plus Schneider Electric Modicon FIPWAY Mitsubishi Melsec third party protocols Omron Sysmac third party protocols Rockwell Automation Allen-Bradley third party protocols Siemens Simatic third party protocols Schneider Electric Modicon Modbus TCP
<b>Integrated connection type</b>	COM1 serial link RJ45, interface: RS232C/RS485, transmission rate: 2400...115200 bps COM1 serial link RJ45, interface: RS232C/RS485, transmission rate: 187.5 kbps compatible with Siemens MPI Ethernet RJ45, interface: 10BASE-T/100BASE-TX Ethernet RJ45, interface: IEEE 802.3 USB 2.0 type A USB 2.0 type mini B
<b>Product mounting</b>	Flush mounting
<b>Fixing mode</b>	By 4 screw clamps
<b>Front material</b>	PPT
<b>Enclosure material</b>	PPT
<b>Type of cooling</b>	Natural convection
<b>Width</b>	132 mm
<b>Height</b>	106 mm
<b>Depth</b>	42 mm
<b>Product weight</b>	0.4 kg

## Environment

<b>Standards</b>	IEC 61000-6-2 UL 508 IEC 61131-2
<b>Product certifications</b>	KCC cULus C-Tick CE UKCA UKEX
<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 % without condensation
<b>Operating altitude</b>	< 2000 m
<b>IP degree of protection</b>	IP20 (rear panel) conforming to IEC 60529 IP65 (front panel) conforming to IEC 60529
<b>NEMA degree of protection</b>	NEMA 4X front panel (indoor use)
<b>Shock resistance</b>	147 m/s <sup>2</sup> 3 shocks in each direction X, Y and Z 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) - conforming to IEC 61131-2 1 gn (f = 9...150 Hz) - X, Y, Z directions for 10 cycles (approx. 100 min) - conforming to IEC 61131-2
<b>Resistance to electrostatic discharge</b>	6 kV contact discharge conforming to IEC 61000-4-2 level 3

## Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.500 cm
Package 1 Width	18.500 cm
Package 1 Length	21.000 cm
Package 1 Weight	712.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.557 kg

## Contractual warranty

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Warranty	18 months
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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	440
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## 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
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	1dccf83b-8f76-4cf8-81ea-6c1f56fecaf9
REACH Regulation	<a href="#">REACH Declaration</a>
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 <a href="#">www.P65Warnings.ca.gov</a>
Halogen-free status	Product contains halogen above thresholds
PVC free	No
Silicone-free	No

## Use Again

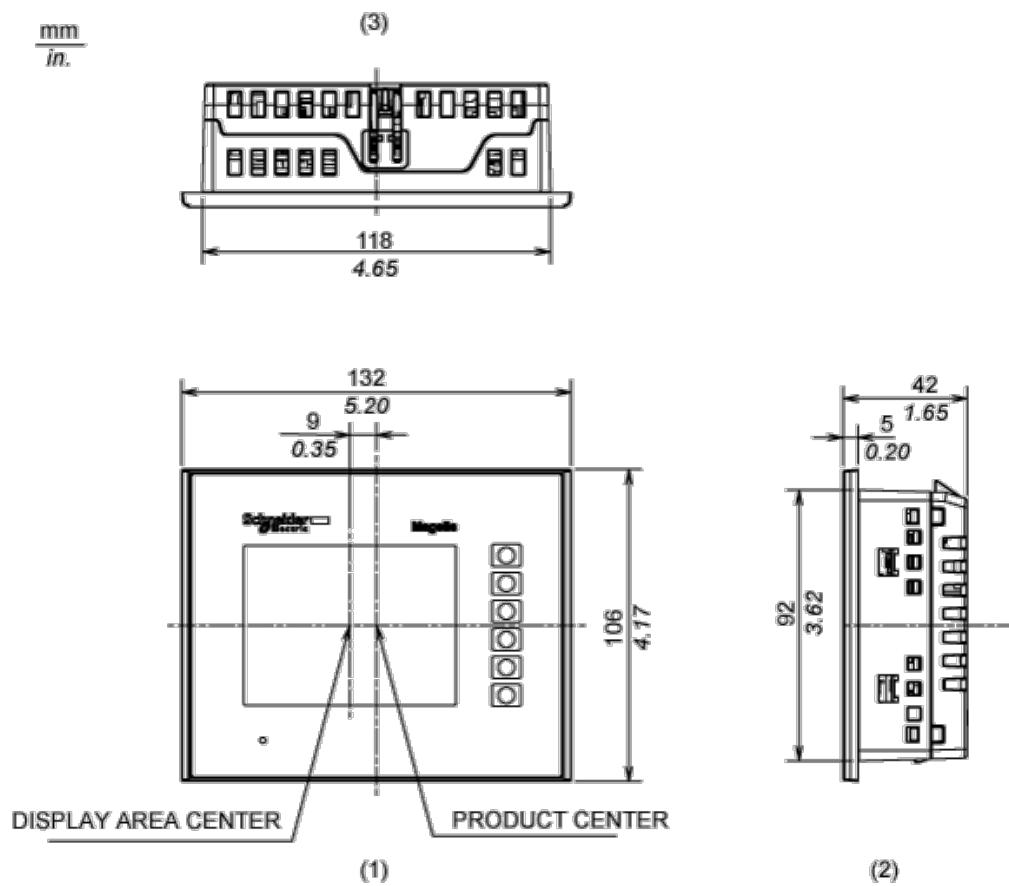
### Repack and remanufacture

End of life manual availability	<a href="#">End of Life Information</a>
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

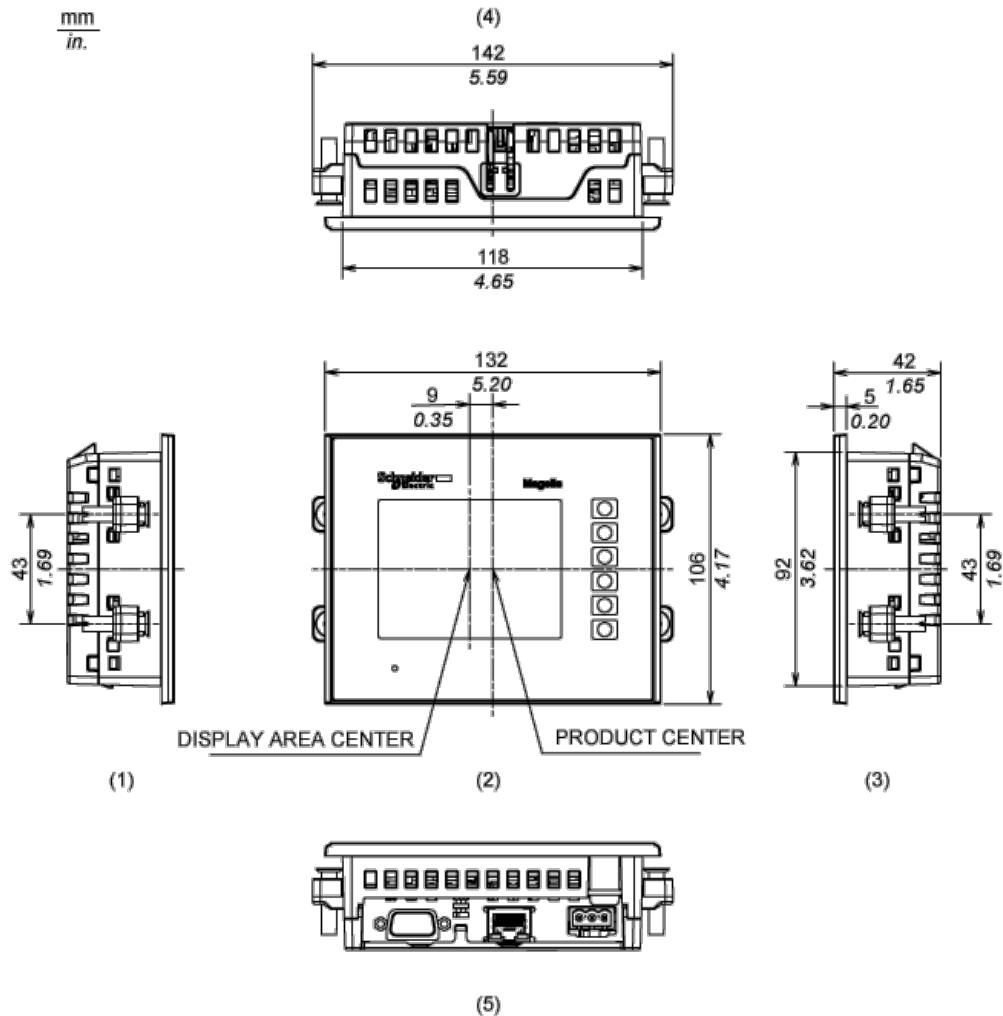


1 Front

2 Right Side

3 Top

## Installation with Installation Fasteners



1 Left Side

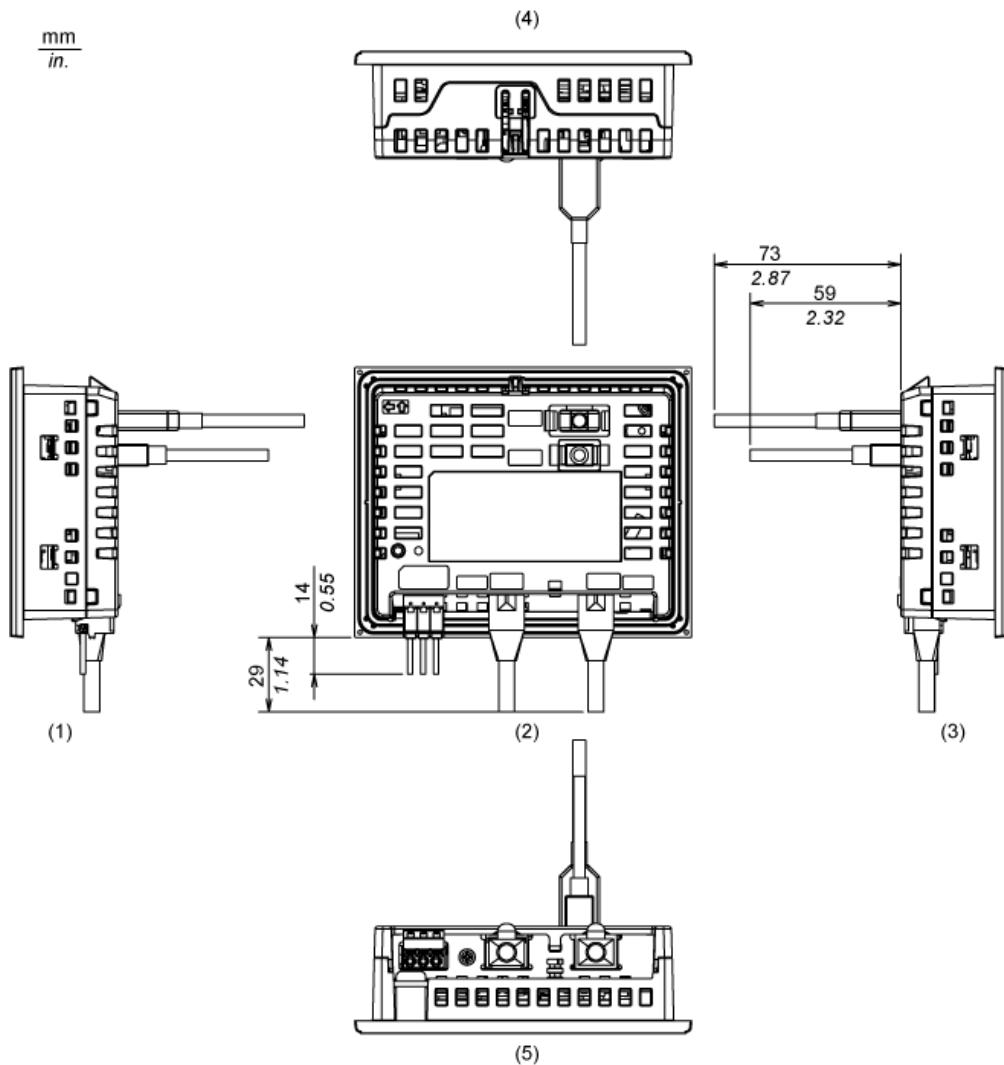
2 Front

3 Right Side

4 Top

5 Bottom

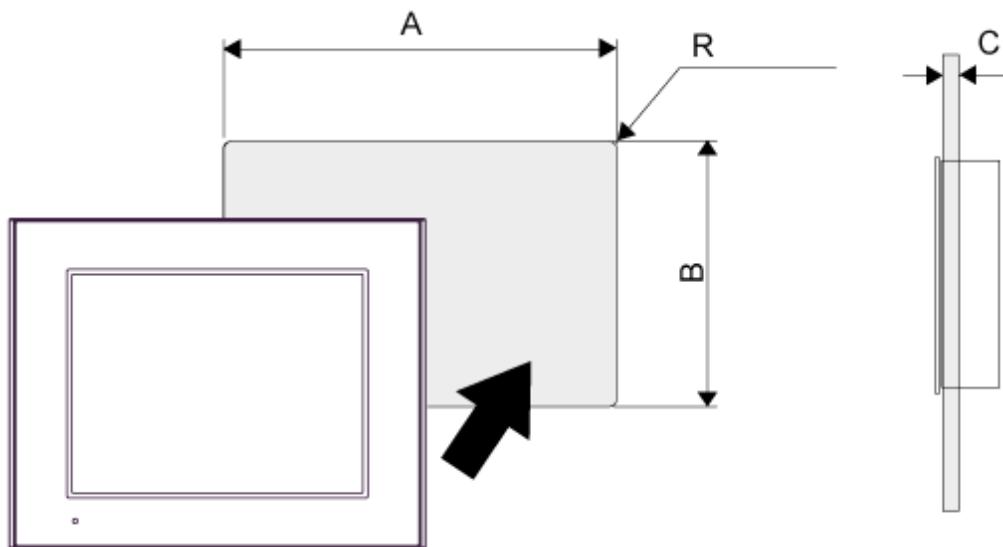
#### Dimensions with Cables



## Mounting and Clearance

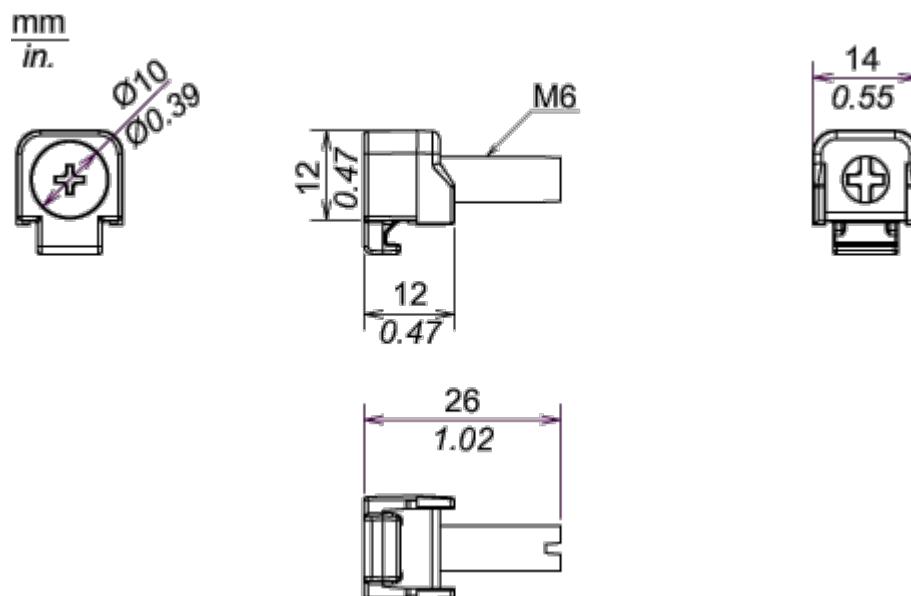
Mounting

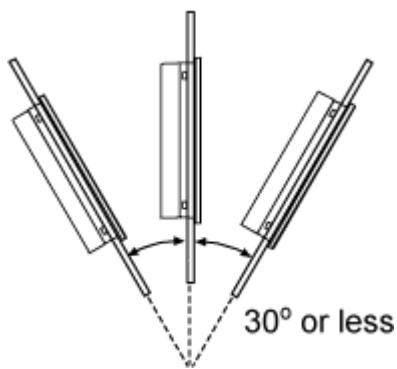
## Panel Cut Dimensions



A	B	C	R
mm	in.	mm	in.
118.5 (+1, -0)	4.67 (+0.04, -0)	92.5 (+1, -0)	3.64 (+0.04, -0)
		1.6...5	0.06...0.2
		3 max.	0.12 max.

## Installation Fastener Dimensions



**Installation Requirements****Mounting Angle**

When installing the panel in a slanted position with an incline more than 30°, the ambient temperature must not exceed 40 °C (104 °F). You may need to use forced air cooling (fan,A/C) to ensure the ambient operating temperature is 40°C or less (104 °F or less).

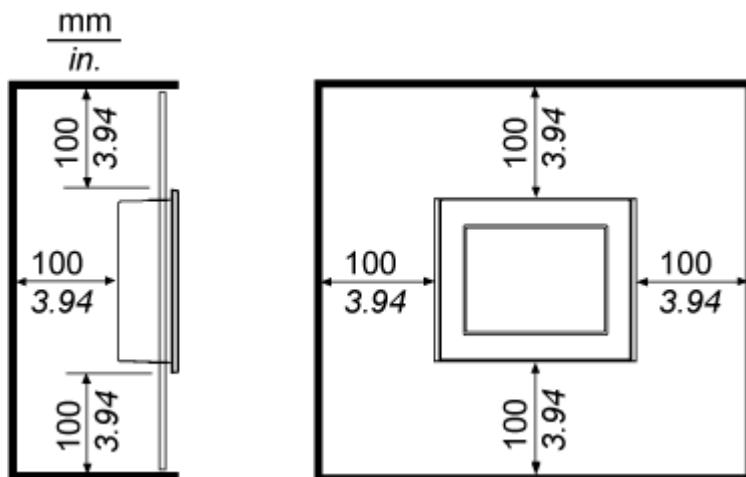
**Clearance**

Image of product / Alternate images

Alternative

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