Product data sheet
Characteristics

HMIGTO2310
advanced touchscreen panel, Harmony GTO, 320 x 240pixels QVGA, 5.7inch TFT, 96MB



Main

Range of product	Harmony GTO
Product or component type	Advanced touchscreen panel
Display colour	65536 colours
Display size	5.7 inch
Supply	External source
Battery type	Lithium battery for internal RAM, autonomy: 100 days, charging time = 5 day(s), battery life = 1
Processor name	ARM926EJ-S
Software package	Vijeo Designer

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	Korean Taiwanese (traditional Chinese) ASCII (European characters) Chinese (simplified Chinese) Japanese (ANK, Kanji)
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.2…28.8 V
Inrush current	30 A
Maximum power consumption in W	6.5 W when power is not supplied to external devices 4.5 W when backlight is OFF 5 W when backlight is dimmed 10.5 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) COM2 LED yellow, steady for data is being transmitted COM2 LED yellow, faded for no data transmission SD card LED green, steady for card is inserted SD card LED green, faded for card is not inserted or is not being accessed
Memory description	Flash EPROM, 96 MB
Data backed up	512 KB internal RAM (SRAM)

Data storage equipment	SD card, <= 32 GB SDHC card, <= 32 GB
Downloadable protocols	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
Integrated connection type	COM1 serial link SUB-D 9, interface: RS232C, transmission rate: 2400...115200 bps COM2 serial link RJ45, interface: RS485, transmission rate: 2400...115200 bps COM2 serial link RJ45, interface: RS485, transmission rate: 187.5 kbps compatible with Siemens Ethernet RJ45, interface: 10BASE-T/100BASE-TX Ethernet RJ45, interface: IEEE 802.3 USB 2.0 type A USB 2.0 type mini B
Product mounting	Flush mounting
Fixing mode	By 4 screw clamps
Front material	PPT
Enclosure material	PPT
Type of cooling	Natural convection
Width	169.5 Mm
Height	137 Mm
Depth	59.5 Mm
Net weight	0.8 Kg

Environment

Standards	IEC 61000-6-2 UL 508 IEC 61131-2
Product certifications	cULus[RETURN]C-Tick[RETURN]CE[RETURN]KCC[RETURN]UKCA[RETURN]UKEX
Ambient air temperature for operation	0…55 °C
Ambient air temperature for storage	-20…60 °C
Relative humidity	10…90 % without condensation
Operating altitude	< 2000 m
IP degree of protection	IP20 (rear panel) conforming to IEC 60529 IP65 (front panel) conforming to IEC 60529
NEMA degree of protection	NEMA 4X front panel (indoor use)
Shock resistance	147 m/s² 3 chocks in each direction X, Y and Z 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 6113 1 gn (f = 9…150 Hz) - X, Y, Z directions for 10 cycles (approx. 100 min) - conforming to IEC 6113
Resistance to electrostatic discharge	6 KV contact discharge conforming to IEC 61000-4-2 level 3

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.500 Cm
Package 1 Width	18.500 Cm
Package 1 Length	23.500 Cm
Package 1 Weight	1.055 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	5.000 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	64
Package 3 Height	105.000 Cm

Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	100.000 Kg

Offer Sustainability

Recyclability potential, in %	25
Total lifecycle Carbon footprint	515 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	83.12446428571428
Carbon footprint of the manufacturing phase [A1 to A3]	83 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.12095696428571429
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.22971714285714284
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	430.94624999999996
Carbon footprint of the use phase [B2, B3, B4, B6]	431 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.8836392857142856
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	515
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
SCIP Number	76565be4-97e1-4441-9623-82d029ddb7ce
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wi
Halogen-free status	Product contains halogen above thresholds
PVC free	No
Silicone-free	No
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised