# Product data sheet
## Characteristics

# HMIGTO4310
advanced touchscreen panel, Harmony GTO, 640 x 480pixels VGA, 7.5inch TFT, 96MB



## Main

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|---|---|
| Range of product | Harmony GTO |
| Product or component type | Advanced touchscreen panel |
| Display colour | 65536 colours |
| Display size | 7.5 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

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|---|---|
| Terminal type | Touchscreen display |
| Display type | Backlit colour TFT LCD |
| Display resolution | 640 x 480 pixels VGA |
| 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<br>16 levels - control by software |
| Character font | Korean<br>Taiwanese (traditional Chinese)<br>Japanese (ANK, Kanji)<br>ASCII<br>Chinese (simplified Chinese) |
| [Us] rated supply voltage | 24 V DC |
| Supply voltage limits | 19.2…28.8 V |
| Inrush current | 30 A |
| Maximum power consumption in W | 8 W when power is not supplied to external devices<br>5 W when backlight is OFF<br>5.5 W when backlight is dimmed<br>12 W |
| Local signalling | Status LED green, steady for offline<br>Status LED green, steady for operating<br>Status LED orange, flashing for software starting up<br>Status LED red, steady for power supply (ON)<br>Status LED clear, faded for power supply (OFF)<br>COM2 LED yellow, steady for data is being transmitted<br>COM2 LED yellow, faded for no data transmission<br>SD card LED green, steady for card is inserted<br>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) |

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| Data storage equipment | SD card, <= 32 GB<br>SDHC card, <= 32 GB |
| Downloadable protocols | Schneider Electric Modicon Modbus<br>Schneider Electric Modicon Uni-TE<br>Schneider Electric Modicon Modbus Plus<br>Schneider Electric Modicon FIPWAY<br>Mitsubishi Melsec third party protocols<br>Omron Sysmac third party protocols<br>Rockwell Automation Allen-Bradley third party protocols<br>Siemens Simatic third party protocols<br>Schneider Electric Modicon Modbus TCP |
| Integrated connection type | COM1 serial link SUB-D 9, interface: RS232C, transmission rate: 2400...115200 bps<br>COM2 serial link RJ45, interface: RS485, transmission rate: 2400...115200 bps<br>COM2 serial link RJ45, interface: RS485, transmission rate: 187.5 kbps compatible with Siemens<br>Ethernet RJ45, interface: 10BASE-T/100BASE-TX<br>Ethernet RJ45, interface: IEEE 802.3<br>USB 2.0 type A<br>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 | 218 Mm |
| Height | 173 Mm |
| Depth | 60 Mm |
| Net weight | 1.2 Kg |

## Environment

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|---|---|
| Standards | IEC 61131-2<br>IEC 61000-6-2<br>UL 508 |
| Product certifications | CE[RETURN]cULus[RETURN]KCC[RETURN]C-Tick[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<br>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<br>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

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 14.500 Cm |
| Package 1 Width | 26.600 Cm |
| Package 1 Length | 30.500 Cm |
| Package 1 Weight | 1.538 Kg |
| Unit Type of Package 2 | P12 |
| Number of Units in Package 2 | 48 |
| Package 2 Height | 105.000 Cm |
| Package 2 Width | 80.000 Cm |
| Package 2 Length | 120.000 Cm |
| Package 2 Weight | 99.392 Kg |

## Offer Sustainability

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| Recyclability potential, in % | 25 |
| Total lifecycle Carbon footprint | 620 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 125.81 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 126 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.18307 |
| Carbon footprint of the distribution phase [A4] | 0.2 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.34768 |
| Carbon footprint of the installation phase [A5] | 0.3 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 492.51 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 493 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 1.3374 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 1 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 620 |
| 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

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| Warranty (in months) | 18 |

Product Life Status : Commercialised