



P5101ZB

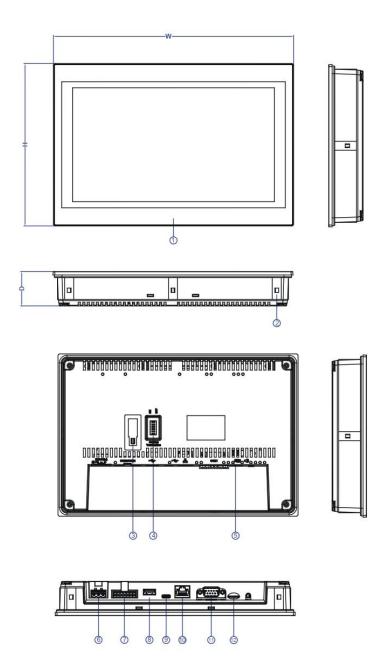
HMI with 10.1" TFT LCD display

- ♦ Cortex 1GHz Processor
- ♦ Built-in Power Isolation
- ♦ Built-in PLC Expansion function
- ♦ PCB coating for Stability in Harsh Environment
- ♦ Fan-less Design for Cooling Method
- ♦ High Noise Immunity Design for Industrial Application

| | 1 | I | | I | |
|---------------|-----------------------|--|-------------------|-------------------------------|--------------------------------|
| | Panel Size | 10.1" TFT (16:9) | | Serial 1 (DB-9) | RS-232 (2W) |
| | Panel Resolution | 1024 x 600 | | Serial 2 (Terminal Blocks) | RS-422/485 (4W) RS-485 (2W) |
| | Brightness | 300 (cd/m²) | | RS-422/485 Isolation | - |
| Display | Contrast Ratio | 450 | | Ethernet | 10M / 100M |
| | Backlight Type | LED | I/O Port | USB HOST | USB2.0 x 1 |
| | Backlight Life Time | 25,000 Hrs | | USB Device | USB2.0 x 1(USB Type C) |
| | Colors | 16.7M | | Micro-SD Slot | Yes |
| | LCD Viewing Angle | 50/20/55/55 (T/B/L/R) | | Audio Output | - |
| | Туре | 4-wire Resistive Type | | Video Input | - |
| Touch | Accuracy | X axis±2%; Y axis±2% | | Termination Switch | Yes |
| Mamagu | Flash | 256MB | | PLC Extension | Yes |
| Memory | RAM | 256MB | I/O Extension | HMI Extension | Yes |
| Custom | CPU | 32 bit RISC Cortex-A8 1GHz | | Wireless Module | Yes |
| System | RTC | Yes | | Power Input Range | 14 ~ 32VDC |
| D | Dimensions W x H x D | 266.0 x 180.0 x 38.0 (mm) | D | Power Isolation | Yes |
| Dimension | Cut-out | 257.0 x 171.0 (mm) | Power | Isolation Resistance | Exceed 50M Ω at 500VDC |
| /Weight | Weight | 900 (g) | | Power Consumption | 12.02W (@24VDC) |
| | Protection Structure | Front panel: IP65 / Rear Cas | e : IP20 | | |
| | PCB Coating | Yes | | | |
| | Operating Temp | 0~50°C | | | |
| | Storage Temp | -20 ~ 60°C | | | |
| Environment | Relative Humidity | 10%~90% (40°C Non-conde | nsing) | | |
| | Withstand Voltage | 500VAC/20mA/1 Min. (between charger & FG terminals) | | | |
| | Vibration Endurance | 5 to 9Hz Half-amplitude: 3.5r 9 to 150 Hz Constant acceler 3 directions of X, Y, Z: 10time | ation: 19.6m/s2 (| | |
| Software | FvDesigner V1.6.42 or | later versions | | | |
| Certification | CE, UL | | | | |
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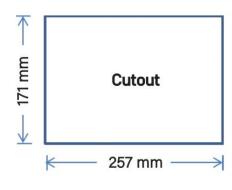
Dimensions Drawing



| W | 266 mm |
|---|--------|
| Н | 180 mm |
| D | 38 mm |

| | 384 Sec. 1997 |
|-----|---|
| 1 | Power Indicator Light |
| 2 | Mounting Hole |
| 3 | HB1 PLC Connector |
| 4 | COM3/COM4 Termination Switch |
| (5) | HB1 PLC Screw Hole |
| 6 | Power Connector |
| 7 | COM3/COM4: Pluggable Terminal Block |
| 8 | USB Connector |
| 9 | Type C Connector |
| 10 | Ethernet RJ45 Connector (for Ethernet /Multifunction model) |
| 11) | COM1: DB-9 Male Connector* |
| 12 | Micro-SD Card Slot (for Multifunction model) |

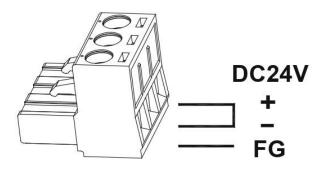
^{*}This series HMI do not support COM2.



| PIN# | COM1 [RS-232] |
|------|------------------|
| 1 | NC ¹ |
| 2 | RX |
| 3 | TX |
| 4 | NC |
| 5 | GND |
| 6 | NC |
| 7 | NC |
| 8 | NC |
| | NC |

| 572. | Pluggable | Terminal Block | 62.57Z |
|----------------|------------------|------------------|------------------|
| | | | |
| ЩЩІ | | | للحلالم |
| PIN# | COM3 [RS-422] | COM3 [RS-485] | COM4 [RS-485] |
| 1 | NC | NC | DATA+ |
| | NC | NO | |
| 2 | NC | NC | DATA- |
| 3 | GND | GND | GND |
| - | | | |
| 3 | GND | GND | GND |
| 3 | GND RX+ | GND NC | GND NC |





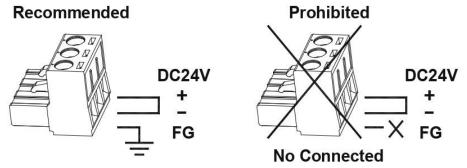
- Be sure to connect the ground FG terminal to a class-3 ground (Ground resistance should not exceed 100Ω).
 Try to make the ground wire as short as possible.
- Use 22 14 AWG (0.6 1.5 mm²) wire for the power connections.



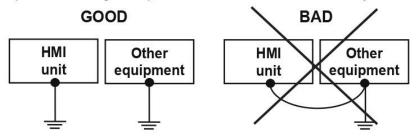
Please use solid wires between 22AWG and 14AWG. Maximum 300V and rated temperature to 105°C for input power pins.



Make sure the HMI is properly grounded to prevent electrical shock, fire or malfunction.



 HMI unit and other equipment should have the same electrical grounding (reference voltage level), otherwise communication errors may occur.



Operation

- Do not use sharp objects or excessive force to press the touch screen. This
 may damage the touch screen. Screen protector can be applied to the HMI
 screen to portect if from damage, for ordering information, please contact
 our sales department.
- Do not use the output signal of the device as any safety function or system emergency stop. It may result in personal injury or equipment damage if a malfunction of the touch occurs.

Maintenance and Service

- The agreed guarantee applies.
- Only qualified personnel should make repairs and perform maintenance.
- Disconnect the device from the power supply before carrying out cleaning or maintenance.
- Clean the front panel with a soft cloth and mild detergent.
- Please use original replacement spare parts or accessories.