

HG2J SERIES PROGRAMMABLE DISPLAY

TYPE HG2J-7UT22TF-B

└─ Housing color

1. Applicable standard

UL61010-1/61010-2-201 (UL-Listing)
 UL121201(UL-Listing)
 CSA C22.2No.61010-1-12 (c-UL-Listing)
 CSA C22.2No.61010-2-201 (c-UL-Listing)
 CSA C22.2No.213 (c-UL-Listing)
 IEC/EN61131-2

2. Operating conditions

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|---------------------------|---------------------------------|
| (1) Operating temperature | -20 to +60°C (non-freezing) |
| (2) Storage temperature | -20 to +70°C (non-freezing) |
| (3) Operating humidity | 10 to 90 %RH (non-condensation) |
| (4) Operating atmosphere | Free from corrosive gases |
| (5) Pollution degree | 2 |

3. Ratings

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|--|---|
| (1) Rated operational voltage | 12V DC/24V DC |
| (2) Power voltage range | 10.2 to 28.8V DC |
| (3) Inrush current | 40A maximum |
| (4) Allowable momentary power interruption | 10 ms maximum (Power Voltage 20.4 to 28.8 V DC) |
| | 1 ms maximum (Power Voltage 10.2 to 20.4V DC) |
| (5) Power consumption | 13W maximum
(When not using USB1 and USB2: 5W maximum,
not using USB1 and USB2, backlight is off: 3W maximum) |

4. Construction

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|----------------------------------|---|
| (1) Outside view | See attached sheet. |
| (2) Degree of protection | ▪ When panel thickness is 1 to 5 mm: IP65F (IEC60529) |
| | ▪ When panel thickness is 1.6 to 5 mm: IP66F, IP67F (IEC60529),
TYPE 4X (indoor use only), TYPE 13 |
| (3) Housing color | Black(B) |
| (4) Construction of installation | Panel mounting |
| (5) Weight | Approx. 0.5kg |

5. General specifications

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|-----------------------------|--|
| (1) Dielectric strength | 500V AC, 10 mA for 1 minute (Between power and earth terminal) |
| (2) Vibration resistance | 5 to 8.4Hz amplitude 3.5mm, 8.4 to 150Hz acceleration 9.8m/s ²
(10times on each of three mutually perpendicular axes) (IEC61131-2) |
| | (3) Shock resistance |
| (4) Noise resistance | Fast transient burst withstand ability |
| | Power supply: ±2 kV, communication line: ±1kV |
| | *Without USB cable |
| (5) Electrostatic discharge | Contact: ±6kV, Air: ±8kV |

6. Display specifications

6.1 Device

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|----------------------------|----------------------------------|
| (1) Display elements | TFT Color LCD (TN type) |
| (2) Display color | 65,536 colors |
| (3) Effective display area | 154.08(W) × 85.92(H) mm |
| (4) Display resolution | 800(W) × 480(H) dots |
| (5) View angle | Left/Right/Top: 80°, Bottom: 60° |
| (6) Brightness | 500 cd/m ² (Typ.) |
| (7) Brightness adjustment | 48 level of adjustment available |

6.2 Back light

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|---------------------------|--|
| (1) Device | LED (White) |
| (2) Life (reference data) | Approx. 50,000 hours
(The time until brightness becomes 50% of the initial value) |

7. Touch panel specification

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|------------------------|----------------------------------|
| (1) Operating Method | Projected Capacitive Touch Panel |
| (2) Multiple Operation | Possible (2-point touch) |

8. Performance specification

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|-------------------------------|---|
| (1) USER memory | Approx. 24M bytes |
| (2) Calendar | Year, month, day, hour, min., sec., day of week ±90sec per month (at 25°C) |
| (3) Backup of the real-time | 20 days (Typ.) (at 25°C) |
| (4) Power failure backup data | Calendar(*1), log data(*2), HMI keep internal relays/resisters(*2)
*1) Kepted by large capacity capacitor
*2) Holded by non-volatile memory |

9. Interface specifications

9.1 Serial interface (COM) specifications

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|--------------------------------|--|
| (1) Electrical characteristics | RS-232C ,RS422/485 |
| (2) Transmission speed | 1200/2400/4800/9600/19200/38400/57600/115200/187500bps |
| (3) Synchronous method | Asynchronous |
| (4) Connector Shapes | Detachable Terminal Block 9pin (Push-in) |
| (5) Maximum Cable Length | RS232C: 15m
RS422/485: 1200m |

9.2 Ethernet Interface (LAN) specifications

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|-----------------------------|--------------------------------|
| (1) Interface specification | IEEE802.3u 10BASE-T/100BASE-TX |
| (2) Connector Shapes | Modular connector(RJ-45) |
| (3) Maximum Cable Length | 100m |

9.3 USB Interface (USB1) specification specifications

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|-----------------------------|---------------|
| (1) Interface specification | USB2.0 Host |
| (2) Connector Shapes | USB Type A |
| (3) Output Current | 500mA maximum |

9.4 USB Interface (USB2) specification specifications

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|-----------------------------|---------------|
| (1) Interface specification | USB2.0 Host |
| (2) Connector Shapes | USB Type A |
| (3) Output Current | 500mA maximum |

10. Output specification

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|------------|-------------|
| (1) Buzzer | Single tone |
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