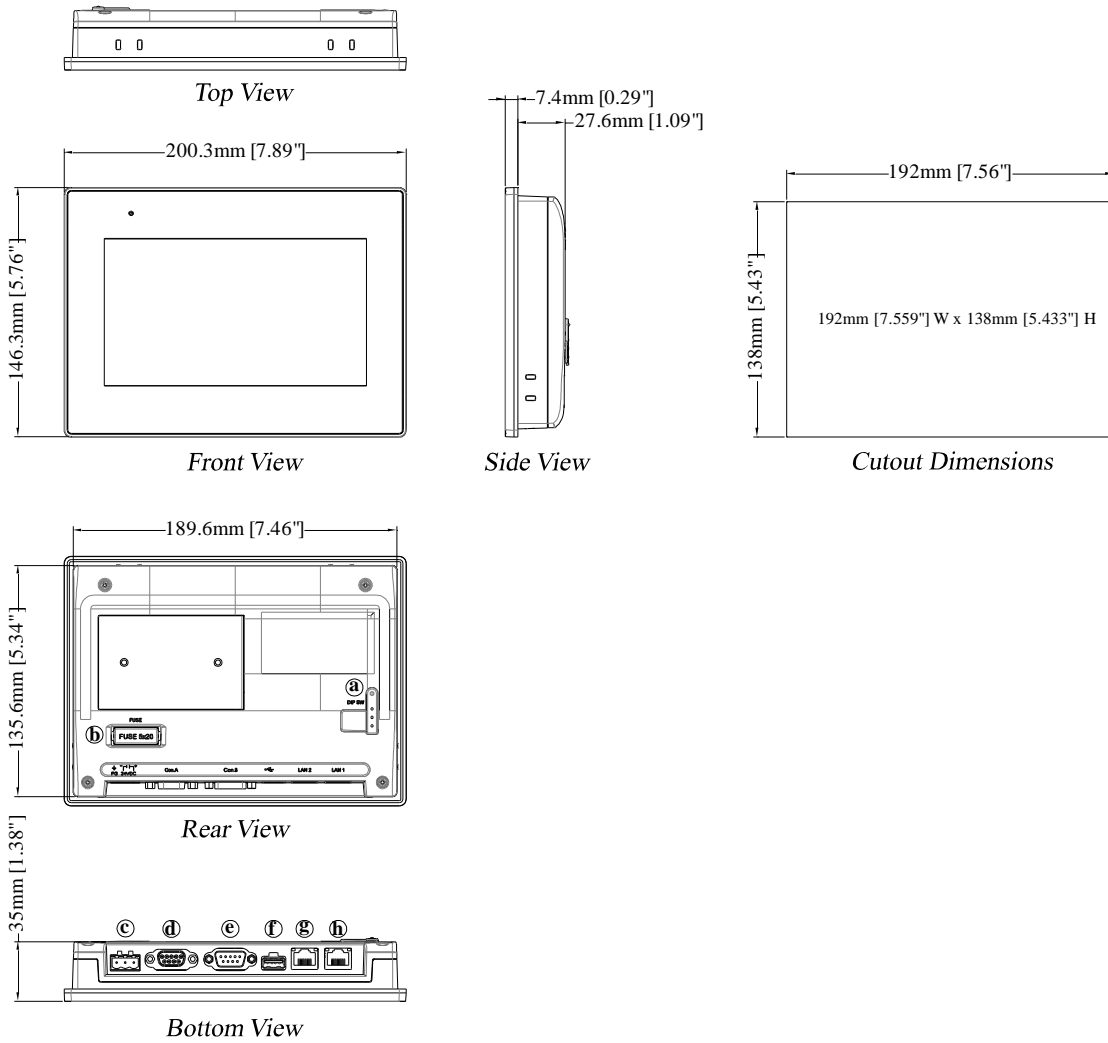# WEINTEK

# cMT3071

## HMI with 7" TFT Display

### Feature

- 7" 800 x 480 TFT LCD, LED Backlight
- Fan-less Cooling System
- Built- in 4GB Flash Memory and RTC
- COM2 and COM3 RS-485 2W supports MPI 187.5K, please use one at a time
- CAN Bus Supports CANopen, CAN Bus 2.0A/2.0B and SAE J1939
- Built-in Power Isolator
- Wide input voltage range: 10.5~28VDC
- NEMA4 / IP65 Compliant Front Panel

| | | |
|---|---|---|
| **Display** | Display | 7" TFT |
| | Resolution | 800 x 480 |
| | Brightness (cd/m$^2$) | 400 |
| | Contrast Ratio | 800:1 |
| | Backlight Type | LED |
| | Backlight Life Time | >30,000 hrs. |
| | Colors | 16.7M |
| | LCD Viewing Angle (T/B/R/L) | 60/80/80/80 |
| | Pixel Pitch (mm) | 0.1926 (H) x 0.179 (V) |
| **Touch Panel** | Type | 4-wire Resistive Type |
| | Accuracy | Active Area Length(X)±2%, Width(Y)±2% |
| **Memory** | Flash | 4 GB |
| | RAM | 1 GB |
| **Processor** | | 32 bits RISC Cortex-A9 1GHz |
| **I/O Port** | SD Card Slot | N/A |
| | USB Host | USB 2.0 x 1 |
| | USB Client | N/A |
| | Ethernet | LAN 1: 10/100/1000 Base-T x 1<br>LAN 2: 10/100 Base-T x 1 |
| | COM Port | Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus<br>Con.B: COM1 RS-232, COM3 RS-232* |
| | CAN Bus | Yes |
| **RTC** | | Built-in |
| **Power** | Input Power | 10.5~28VDC |
| | Power Isolation | Built-in |
| | Power Consumption | 2A@12VDC ; 1A@24VDC |
| | Voltage Resistance | 500VAC (1 min.) |
| | Isolation Resistance | Exceed 50MΩ at 500VDC |
| | Vibration Endurance | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) |
| **Specification** | PCB Coating | Yes |
| | Enclosure | Plastic |
| | Dimensions WxHxD | 200.3 x 146.3 x 35.0 mm |
| | Panel Cutout | 192 x 138 mm |
| | Weight | Approx. 0.6 kg |
| | Mount | Panel mount |
| **Environment** | Protection Structure | UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel |
| | Storage Temperature | -20° ~ 60°C (-4° ~ 140°F) |
| | Operating Temperature | 0° ~ 50°C (32° ~ 122°F) |
| | Relative Humidity | 10% ~ 90% (non-condensing) |
| **Certificate** | CE | CE marked |
| | UL | cULus Listed |
| **Software** | | EasyBuilder Pro V6.02.01 or later versions |

*Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

## Dimensions

*Top View*

7.4mm [0.29"]
27.6mm [1.09"]

200.3mm [7.89"]

146.3mm [5.76"]

*Front View*

*Side View*

192mm [7.56"]

138mm [5.43"]

192mm [7.559"] W x 138mm [5.433"] H

*Cutout Dimensions*

189.6mm [7.46"]

135.6mm [5.34"]

ⓐ DIP SW
ⓑ FUSE 8x20

*Rear View*

35mm [1.38"]

ⓒ ⓓ ⓔ ⓕ ⓖ ⓗ

*Bottom View*

| | | | |
|---|---|---|---|
| **a** | DIP SW | **e** | Con.B:<br>COM1 RS-232,<br>COM3 RS-232 |
| **b** | Fuse | **f** | USB Host Port |
| **c** | Power Connector | **g** | LAN 2 |
| **d** | Con.A:<br>COM2 RS-485 2W/4W,<br>COM3 RS-485 2W,<br>CAN Bus | **h** | LAN 1 |

## Accessories

❑ **RP0060700 (included in package)**
7" Screen Protective Film
❑ **RZUSK7010 (included in package)**
USB Clamp & Tying Strap

**Pin Assignment:**

**Con.B: COM1 / COM3 [RS232] 9 Pin, Male, D-sub**

| PIN# | COM1 [RS232] | COM3 [RS232] |
|---|---|---|
| 1 | | |
| 2 | RxD | |
| 3 | TxD | |
| 4 | | |
| 5 | GND | |
| 6 | | |
| 7 | RTS | TxD |
| 8 | CTS | RxD |
| 9 | | |

**Con.A: COM2 / COM3 [RS485]/ CAN Bus, 9 Pin, Female, D-sub**

| PIN# | COM2 [RS485]2W | COM2 [RS485]4W | COM3 [RS485]2W | CAN Bus |
|---|---|---|---|---|
| 1 | Data- | Rx- | | |
| 2 | Data+ | Rx+ | | |
| 3 | | Tx- | | |
| 4 | | Tx+ | | |
| 5 | GND | | | |
| 6 | | | Data- | |
| 7 | | | | CAN_L |
| 8 | | | | CAN_H |
| 9 | | | Data+ | |