

## Operating unit / HMI for rear panel mounting MT8070iER



- 7" TFT LCD graphic display 800 x 480 pixels
- LED backlight
- Fanless cooling system
- Real time clock RTC
- Coated circuit board is protected against corrosion and ensures high reliability in harsh environments
- COM1 or COM3 (2-wire RS485) supports MPI up to 187.5 k
- USB host

<https://www.wachendorff-prozesstechnik.de/en/MT8070iER>

### Description

The MT8070iER from Weintek is specially designed for small and medium-sized operating and monitoring tasks in all areas of industrial automation and mechanical engineering. The device is equipped with all the necessary functions, but dispenses with special features and rarely required hardware, thereby significantly increasing the price/performance ratio. The MT8070iER has been specially designed for rear panel mounting and is ideal for applying your own front foil, e.g. with your logo or device designation in your own colors, in front of the display.

Wachendorff operating devices are industrially robust. The circuit board of the MT8070iER is additionally protected against corrosion and moisture by a special coating. The RS485 serial interface is double galvanically isolated. This makes the device ideal for use in harsh industrial environments and ensures reliable operation and a long service life. The fanless system with 32-bit Cortex A8 processor and 600 MHz clock rate guarantees a short response time and fast display of complex project configurations. The "EasyBuilder Pro" project planning software for the Wachendorff IE series makes no special demands on your PC, is easy to use and is available free of charge.

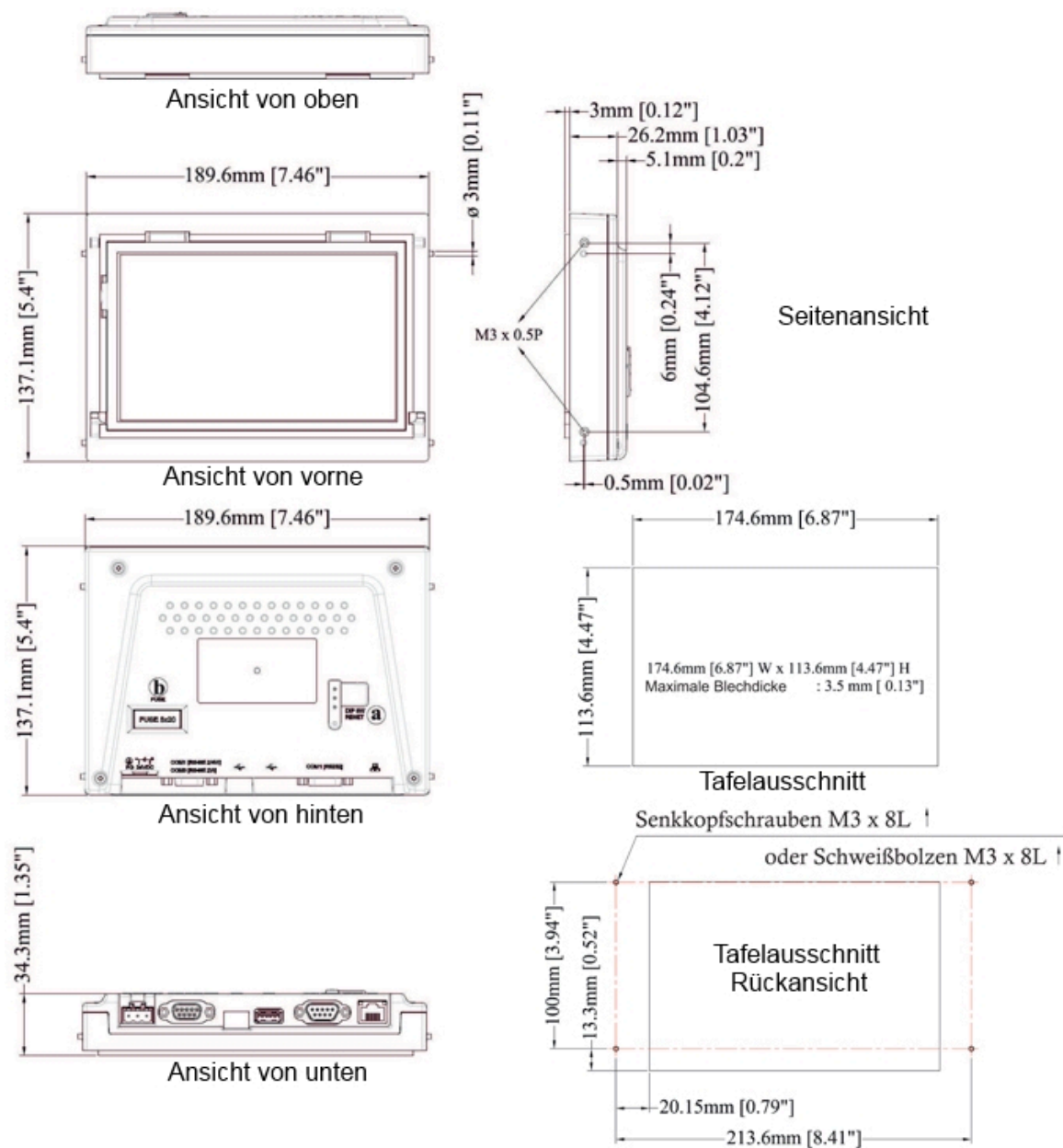
### Product details

|                     |                                                                                                                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:       | Input voltage range: 24 VDC +/-20 %<br>Current consumption: 350 mA at 24 VDC<br>Dielectric strength: 500 VAC(1 min.)<br>Insulation resistance: >50 MOhm at 500 VDC<br>Vibration resistance: 10 to 25 Hz (X, Y, Z direction 2 G 30 min.)<br>Connection via pluggable 3-pole terminal strip. |
| Display:            | Size: 7"<br>Resolution: 800 x 480 pixels<br>Display: TFT-LCD Touch 4-wire resistive<br>Accuracy: active range length(x) $\pm 2\%$ , width(y) $\pm 2\%$<br>Brightness: 350 cd/m <sup>2</sup><br>Colors: 16 Mio.<br>Contrast: 500 : 1                                                        |
| Touch display:      | 4-wire analog resistive.<br>Backlighting via LED with a typical service life of > 30,000 hours.                                                                                                                                                                                            |
| Indicators:         | 1 LED to indicate the power supply.                                                                                                                                                                                                                                                        |
| CPU and core logic: | 32 bit RISC Cortex 8, 600 MHz processor.<br>Linux-based operating system.                                                                                                                                                                                                                  |

|                        |                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------|
| Memory:                | - 128 MB RAM<br>- 128 MB memory                                                                               |
| USB port:              | 1 x USB 2.0 host                                                                                              |
| Serial interfaces:     | COM1: RS232 / RS485 2-/4-wire,<br>COM3: RS485 2-wire.<br>RS485 interfaces are MPI-capable up to 187,500 baud. |
| Ethernet:              | 10/100 Base-T with RJ45 plug                                                                                  |
| Real-time clock:       | Integrated real-time clock RTC                                                                                |
| Shock:                 | 10 Hz to 25 Hz (X, Y, Z direction 2 g over 30 minutes)                                                        |
| Housing:               | Robust plastic housing with metal brackets for rear wall mounting.                                            |
| Weight:                | approx. 520 g                                                                                                 |
| Ambient temperature:   | Operation: 0 °C to +50 °C.<br>Storage: -20 °C to +60 °C.                                                      |
| Protection class:      | NEMA4 / IP65 (with corresponding mounted front foil)                                                          |
| Software:              | EasyBuilder Pro from version 3.00.01 or higher                                                                |
| Scope of delivery:     | Device, fuse, mounting material                                                                               |
| Customs tariff number: | 85371098                                                                                                      |
| Manufacturer:          | Weintek Labs, Inc                                                                                             |

## Drawings

### Dimensions





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