# Touch Operating Panel
# ETT 771

with 7" WVGA TFT color display

The build-in touch terminal is an intelligent panel for visualizing, operating and monitoring automated processes. A resistive touch screen serves as the input medium for process data and parameters. The output is shown on a 7" WVGA TFT color display.
With the LSE mask editor, graphics can be created on the PC, then stored and displayed on the build-in touch terminal. The available interfaces can be used to exchange process data or configure the build-in touch terminal. A microSD card serves as the storage medium for the operating system, application and application data.

## Performance Data

| | |
|---|---|
| Processor | EDGE2 Technology |
| Processor cores | 1 |
| Internal cache | 32-kbyte L1 Instruction Cache<br>32-kbyte L1 Data Cache<br>512-kbyte L2 Cache |
| Internal program and data memory (DDR3 RAM) | 256-Mbyte |
| Internal remnant data memory | 256-kbyte SRAM (battery buffered) |
| Internal storage device | 512-Mbyte microSD card |
| Internal I/O | no |
| Interfaces | 1x USB-OTG (Host/Device) (for service purposes only)<br>1x Ethernet 10/100 (RJ45)<br>1x CAN bus (6-pin Weidmüller)<br>1x RS485/Modbus (6-pin Weidmüller)<br>1x RS232 (9-pin D-Sub) |
| Internal interface connections and devices | 1x TFT LCD color display<br>1x touch |
| Display<br>Resolution | 7" TFT color display<br>800 x 480 pixels |

| | |
|---|---|
| Control panel | 4-wire touch screen (analog resistive) |
| Signal generator | no |
| Status LEDs | 1x front LED bi-color RED/GREEN (controllable through the application) |
| Real-time clock | yes |
| Cooling | passive (fanless) |

## Electrical Requirements

| | | |
|---|---|---|
| Supply voltage | typically +24 V DC (+18-30 V DC) | |
| Current consumption of power supply at +24 V | typically 180 mA<br>(without externally connected devices) | maximum 290 mA<br>(with externally connected devices) |
| Current consumption of standby voltage at +24 V | typically 110 mA<br>(without externally connected devices) | maximum 180 mA<br>(with externally connected devices) |
| Inrush current | 600 mA (1 ms) | |
| UL standard | for UL: must be supplied with SELV / PELV and Limited Energy<br>Digital output also is SELV / Limited Energy. | |

## Terminal

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|---|---|
| Dimensions | 180 x 135 x 50 mm (W x H x D) |
| Material | front plate: 3 mm aluminum, unadulterated |
| Weight | circa 591 g |

## Environmental Conditions

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|---|---|---|
| Storage temperature | -10 ... +80 °C | |
| Environmental temperature | 0 ... +60 °C | |
| Humidity | 10-90 %, non-condensing | |
| Operating conditions | pollution degree 2<br>indoor use<br>altitude up to 2000 m | |
| EMC stability | in accordance with product standard EN 60730-1 | |
| Vibration resistance | EN 60068-2-6 | 2-9 Hz: amplitude 3.5 mm<br>9-200 Hz: 1 g (10 m/s²) |
| Shock resistance | EN 60068-2-27 | 15 g (150 m/s²)<br>duration 11 ms, 18 Shocks |
| Protection type | EN 60529<br>protection through housing | front: IP54 (no UL-rating)<br>cover: IP20 (no UL-rating) |

## 7″ VGA Display incl. Touch

| | |
|---|---|
| Type | 7″ TFT LCD color display |
| Resolution | WVGA 800 x 480 pixels |
| Color depth | 16-bit RGB (65K colors) |
| LCD mode | normal white |
| LCD polarizer | transmissive |
| Pixel size | 0.1926 mm x 0.1790 mm |
| Number of pixels | 800*3 (RGB) x 480 |
| Active surface | 154.08 mm x 85.92 mm |
| Backlighting | LED |
| Contrast | 500:1 |
| Brightness | typically 280 cd/m² |
| Visible field | left and right 70°, below 70°, above 50° |

## Article Number and Miscellaneous

| | |
|---|---|
| Article number | 01-230-771 |
| Standard | UL 61010-2-201 |
| Approvals | UL, cUL, CE |

# Notes