

## Build-in Touch Terminal TAE 2144



The multi-touch operating panel TAE 2144 is used to visualize automated processes. The operation and monitoring of automated procedures are simplified using this display unit.

The projective capacitive touch screen is used to enter process data and parameters. The output is shown on a 21.5" TFT color display with LED backlighting. This module operates with SIGMATEK HMI-LINK generation 2.1 (G2.1). This allows a transmission from the display, as well as USB signals using standard cables (CAT-5e or CAT-6) from a remote PC to a terminal (up to 100 m). With the 2 integrated USB connection, external end devices (mouse, keyboard ...) or memory (USB stick) can be connection on the HMI side.

### Performance Data

Interfaces	1x HMI Remote IN (HMI-Link G2.1) 2x USB 2.0 Type A OUT 1x Panel Interface Connector (for connecting a SIGMATEK TP)
Internal interfaces (via Panel Interface Connector)	USB 2.0 (for touch and front USB, if available on the TP)
Status LEDs	1x green 1x red (depends on OS)
Display Resolution	21.5" TFT color display FullHD 1920 x 1080 pixels
Operating field	touch screen (projective capacitive)
Cooling	passive (fanless)

### Electrical Requirements

Supply voltage	+24 V DC ±20 % (SELV/PELV) UL: Class 2 or LVLC	
Current consumption of (+24 V) power supply	typically 1500 mA (with no external devices connected)	maximum 1700 mA (with external devices connected)
Inrush current with 24 V/10 A fixed voltage supply	maximum 3.1 A (for 17 ms, load-dependent)	
Inrush current without current-limiting supply	maximum 63 A (for 1.5 ms, load-dependent)	

### Terminal

Dimensions	539 x 331 x 55 mm (W x H x D)
Material	front plate: 2.8 mm glass (touch screen) in black anodized aluminum frame
Weight	5.7 kg

### Environmental Conditions

Storage temperature	-25 ... +85 °C	
Environmental temperature	0 ... +50 °C	
Humidity	10-95 %, non-condensing	
Installation altitude above sea level	0-2000 m without derating  > 2000 m up to a maximum of 5000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
EMC resistance	in accordance with EN 61000-6-2 (industrial area) in accordance with EN 61000-6-1 (living area)	
EMC noise emission	in accordance with EN 61000-6-4 (industrial area) in accordance with EN 61000-6-3 (living area)	
Vibration resistance	EN 60068-2-6	5-200 Hz: amplitude 3.5 mm transition frequency: 8.42454 Hz acceleration: 1 g duration: 10 cycles cycle: 1 octave/minute
Shock resistance	EN 60068-2-27	15 g (147.15 m/s <sup>2</sup> )
Protection type	EN 60529 protection through housing	front: IP65 cover: IP20 (not UL-listed)

## Display

Type	21.5" TN color display
Resolution	FullHD 1920 x 1080 pixels
Color depth	24-bit RGB
LCD mode	normally black
LCD Polarizer	transmissive
Pixel size	0.248 x 0.248 mm
Active range	476.64 x 268.11 mm
Backlighting	LED
Contrast ratio	typically 5000:1
Brightness	typically 300 cd/m <sup>2</sup>
Angle CR ≥ 10	all directions typically 89°
Life span	By compliance with the ambient conditions, the brightness of the display sinks after 50,000 operating hours to 50 % of the original brightness.

## Article Number and Miscellaneous

Article number	12-200-2144
Operating system	-
Standard	UL in preparation
Approvals	CE

## Notes

