Multi-touch Operating Panel
TT 1564

with 15.6" TFT color display

The TT 1564 is an intelligent panel for visualizing, operating and monitoring automated processes. Process diagnostics are thereby simplified.

A projective capacitive touch screen serves as the input medium for process data and parameters. The output is shown on a 15.6" TFT color display.

The available interfaces can be used to exchange process data or configure the multi-touch terminal. An 8-Gbyte eMMC serves as the storage medium for operating system, application and application data.

Performance Data

	Processor	EDGE3-Technology
	Processor cores	4
	Internal program and data memory (RAM)	2-Gbyte (DDR4)
	Internal remnant data memory	128 kByte FRAM
	Internal storage device	8-Gbyte eMMC
	Optional memory expansion	microSD
	Graphic	integrated in EDGE processor
	Interfaces	1x USB-Host 2.0, Type A, front 2x USB-Host 2.0, Type A, back 2x Ethernet 100 Mbit (RJ45) 1x USB 2.0 Type Mini-B OTG 1x microSD card holder (SD 3.0)
	Operating components	no
	Signal generator	no
	Display Resolution	15.6" TFT color display FullHD 1920 x 1080 pixels
	Operating field	Touch screen (multi-touch, projective capacitive)
	Status LEDs	yes (1x red, 1x green)

	Real-time clock	yes (battery buffered)
	Cooling	passive

Electrical Requirements

	Supply voltage	+24 V DC ±20 % (SELV/PELV) UL: NEC Class 2	
	Protection class	III	
	Current consumption of power supply (+24 V)	typically 800 mA (with no external devices connected)	maximum 1000 mA (with external devices connected)
	Inrush current without current- limiting supply	15 A for max. 40 μs	
	Inrush current with 24 V/10 A fixed voltage supply	0.8 mA for max. 500 ms	

Display

	Type	15.6" TFT color display
	Resolution	FullHD 1920 x 1080 pixels
	Color depth	24 Bit RGB
	LCD mode	normally black
	LCD Polarizer	transmissive
	Pixel size	0.17925 x 0.17925 mm
	Active range	344.16 x 193.59 mm
	Backlighting	LED
	Contrast ratio	typically 1000:1
	Brightness	typically 450 cd/m²
	Angle CR ≥ 10	left, right, top, bottom 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.

Terminal

	Dimensions	401 x 300 x 47 mm (W x H x D)
	Material	Front: glass 1.8 mm Housing: anodized aluminum frame/steel sheet powder coated Color: black/anthracite
	Weight	4 kg

Control Unit

Operating field	Touch screen (multi-touch, projective capacitive)
Maximum number of fingers	5
The operation with thin gloves	yes
SIGMATEK Touch pen (passive)	yes
Handwriting recognition	no
Ball of the thumb recognition	yes
Water spray recognition	no
Water detection	no

Input

Input	Multi-touch screen (PCAP)

Environmental Conditions

Storage temperature	-10 ... +80 °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	
Noise emissions	≤ 70 dB	
EMC resistance	according to EN 61000-6-2 (industrial area)	
EMC noise generation	according to EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g (147.15 m/s²)
Protection type	EN 60529/NEMA 250 protection through housing	front: IP65/Type4 cover: IP54/Type12

Article Number and Miscellaneous

Article number	01-270-1564
Operating system	Gecko
Standard	designed according to UL
Approvals	CE

Notes