Build-in Touch Terminal
ETT 1834

The ETT 1834 is an intelligent panel for visualizing, operating and monitoring automated processes.

A capacitive touch screen serves as the input medium for process data and parameters. The output is shown on a 18.5“ TFT color display.

The available interfaces can be used to exchange process data or configure the multi-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	2
Internal cache	32 kByte L1 Instruction Cache 32 kByte L1 Data Cache 512 kByte L2 Cache
Internal program and data memory (RAM)	1-Gbyte DDR3
Internal remnant data memory	512 kByte SRAM (battery buffered)
Internal storage device	1-Gbyte microSD
Internal I/O	no
Interfaces	1x USB-Host 2.0, Typ A (1x back) 1x Online-USB (Device), Typ Mini-B 2x Ethernet
Internal interfaces	1x TN color display 1x USB (touch connection) 1x Panel Interface Connector
Display Resolution	18.5“ TFT color display WXGA 1366 x 768 pixels
Operating panel	Touch screen (projective capacitive)
Signal generator	no
Status LEDs	2 (red & green)
Real-time clock	yes
Cooling	passiv (fanless)

Electrical Requirements

Supply voltage	typically +24 V DC	
	minimal +18 V DC	maximum +30 V DC
Current consumption of (+24 V) power supply	typically 850 mA (without external devices connected)	maximum 1 A (with external devices connected)
Inrush current with 24 V/10 A fixed voltage supply	maximum 1.5 A (für 15 ms, load-dependent)	
Inrush current without current limiting supply	maximum 65 A (für 25 µs, load-dependent)	

Terminal

Dimensions	464 x 285 x 54 mm (W x H x D)
Material	front plate: 1.8 mm glass (touch screen) in black anodized aluminum frame housing: sheet steel
Weight	ca. 4.1 kg

Environmental Conditions

Storage temperature	-10 ... +60 °C	
Environmental temperature	0 ... +50 °C	
Humidity	10-95 %, non-condensing	
Installation altitude above sea level	0-2000 m without derating, > 2000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
EMC resistance	according to EN 61000-6-2:2007 (industrial area)	
EMC noise generation	according to EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	2-9 Hz: amplitude 3.5 mm 9-200 Hz: 1 g (9.81 m/s²)
Shock resistance	EN 60068-2-27	15 g (147.15 m/s²) duration 11 ms, 18 shocks
Protection type	EN 60529 protected through the housing	front: IP65 cover: IP20

18.5“ WXGA Display

Type	18.5” TFT color display
Resolution	WXGA 1366 x 768 pixles
Color depth	18 Bit RGB + Hi-FRC
LCD mode	normally white
LCD Polarizer	transmissive
Pixel size	0.3 x 0.3 mm
Active surface	409.8 x 230.4 mm
Backlighting	LED
Contrast	typically 1000
Brightness	typically 450 cd/m²
Angle CR ≥ 10	left right: 85°/ top down: 80°

Article Number and Miscellaneous

Article number	01-230-1834
Operating system	Salamander
Approvals	CE ETT 1834 consists of TP 1861 und PIM 031, both UL certified $_{c}UL_{us}$(E247993)

Notes