

# Carrier Arm Touch Terminal ETT 7321



The ETT 7321 is used to visualize automated process. Process diagnosis, operating and monitoring automated functions are simplified using this terminal. A projective capacitive 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 LASAL visualization tool, graphics can be created on the PC, then stored and displayed on the terminal. The available interfaces can be used to exchange process data or configure the terminal. In the internal Flash memory, the operating system, application and application data are stored.

## Performance Data

Processor	EDGE2 Technology
Processor cores	1
Internal cache	32-kbyte L1 Instruction Cache 32-kbyte L1 Data Cache 512-kbyte L2 Cache
Internal program and data memory (DDR3 RAM)	256 Mbytes
Internal remnant data memory	256-kByte SRAM (battery buffered)
Internal storage device	512 Mbyte NAND-Flash
Internal I/O	no
Interfaces	1x USB 2.0 (Type A) 1x M12 connector supply, Ethernet and CAN
Internal interface connections and devices	1x TFT LCD color display 1x touch screen
Display Resolution	7" TFT LCD color display 800 x 480 Pixels

Control panel	touch screen (projective capacitive)	
Signal generator	no	
Status LEDs	no	
Real-time clock	yes	
Cooling	passive (fanless)	

## Electrical Requirements

Supply voltage	+24 V DC $\pm 20\%$ (SELV/PELV)	
Protection class	III	
Current consumption of (+24 V) power supply	typically 270 mA	maximum 400 mA
Inrush current	700 mA (2 ms)	

## Control Unit

Touch panel	projective capacitive touch panel
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## 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	
EMC resistance	in accordance with EN 61000-6-2 (industrial area)	
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	5-150 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	front: IP65 cover: IP54 (only with all protective caps fitted)

**7" VGA Display incl. Touch**

Type	7" TFT LCD color display
Resolution	800 x 480 Pixels
Color depth	16-bit RGB
LCD mode	normally white
LCD Polarizer	transmissive
Pixel size	0.1926 x 0.1790 mm
Active range	154.08 x 85.92 mm
Backlighting	LED
Contrast ratio	500:1
Brightness	typically 280 cd/m²
Angle CR ≥ 10	left, right, below 70°, above 50°
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	01-230-7321
Operating system	Salamander
Approvals	CE, UKCA

**Notes**

