

Heating Control HZS 7321



The HZS 7321 is an intelligent terminal for programming and visualization of automated processes. Process diagnostics as well as operating and monitoring automated procedures 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 build-in touch terminal.

The available interfaces can be used to exchange process data or configure the build-in 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)	1024 MByte
Internal remnant data memory	256-kbyte SRAM (battery buffered)
Internal storage device	1024-Mbyte microSD card
Internal I/O	no
Interfaces	1x USB 2.0, Type A (back) 1x USB device 2.0 OTG, Type Mini-B (back) 1x Ethernet 10/100 (RJ45) 2x CAN bus (6-pin Weidmüller) 1x RS485/Modbus (6-pin Weidmüller) 1x RS232 (10-pin Weidmüller) 1x M-BUS for 10 participants (4-pin Phoenix Contact)

Internal interface connections and devices	1x TFT-LCD color display 1x touch screen
Display Resolution	7" TFT color display 800 x 480 Pixels
Operating 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 $\pm 20\%$	
Current consumption of power supply at +24 V	typically 275 mA (without externally connected devices)	maximum 675 mA (with external devices connected)
Current consumption of standby voltage at +24 V	typically 170 mA (without externally connected devices)	maximum 580 mA (with external devices connected)
Inrush current	maximum 27 A for 50 μ s	

Environmental Conditions

Storage temperature	-10 ... +80 °C	
Environmental temperature	0 ... +60 °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 stability	according to product standard EN 60730-1 Residential and industrial environment (EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4)	
Vibration resistance	EN 60068-2-6	2-9 Hz amplitude 3.5 mm 9-200 Hz 1 g (10 m/s ²)
Shock resistance	EN 60068-2-27	15 g (150 m/s ²)
Protection type	EN 60529 protection through housing	front: IP54 cover: IP20

Display 7" WVGA 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 x 0.1790 mm
Number of pixels	800*3 (RGB) x 480
Active surface	154.08 x 85.92 mm
Backlighting	LED
Contrast	500:1
Brightness	typically 350 cd/m²
Visible field	left, right, below 70°, above 50°

Article Number and Miscellaneous

Article number	05-895-7321
Article number in-wall housing	05-895-555-SZ1
Approvals	CE

Notes