

Handheld Control Panel 8.4" HGT 835



with 8.4" SVGA TFT color display

The HGT 835 Control Panel is an intelligent handheld control panel used for programming and visualization of automated processes. Process diagnosis, operating and monitoring functions are thereby simplified. A touch screen serves as the input medium for process data and parameters. The output is shown on an 8.4" SVGA TFT color display.

With the LSE mask editor, graphics can be created on the PC, then stored and displayed on the handheld control panel. The available interfaces can be used to exchange process data or configure the handheld control panel. On the Flash card, the operating system, application and application data are stored.

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 (DDR3 RAM)	256-Mbyte
Internal remnant data memory	128-kbyte MRAM
Internal storage device	1024-Mbyte microSD card
Interfaces	1x Ethernet 1x USB 2.0 Type A 1x Safety Interface (safety specific) 1x VARAN
Internal interface connections and devices	1x TFT LCD color display 1x touch

Control panel	touch screen (analog resistive, 4-wire) confirmation switch (2 normally open, 3-stage) key switch (2 normally open) emergency stop switch (2 normally closed)
Display/Resolution	8.4" TFT color display 800 x 600 pixels
Signal generator	no
Real-time clock	yes (buffering approximately 10 days)
Cooling	passive (fanless)

Electrical Requirements

Supply voltage	typically +24 V DC (PELV)	
	minimum +24 V DC (PELV)	maximum +30 V DC (PELV)
Supply voltage (UL)	+24-30 V DC (NEC Class 2 or LVLC)	
Current consumption Power supply +24 V	typically 0.35 A (without externally connected devices)	typically 0.45 A (with external devices connected)
Inrush current	maximum 10 A for < 50 µs	
USB current load	maximum 0.5 A	

Terminal

Dimensions	217.4 x 187.7 x 72 mm (W x H x D) (without emergency stop switch/key switch)
Material	housing: PC/ASA color: RAL7024
Weight	typically, circa 0.95 kg without connector cable

Environmental Conditions

Storage temperature	-10 ... +60 °C	
Environmental temperature	0 ... +50 °C	
Humidity	10-90 %, non-condensing	
Operating conditions	pollution degree 2 altitude up to 2000 m	
EMC stability	EN 61000-6-2, EN 62061: EMC resistance EN 61000-6-4: noise emission	
Shock resistance	EN 60068-2-27	150 m/s ²
Vibration tolerance	10 m/s ²	
Protection Type	EN 60529	IP54 (with USB cover only)
Free fall (without packaging)	DIN EN 60068-2-32	500 mm

Display

Type	8.4" TFT LCD color display
Resolution	SVGA 800 x 600 pixels
Color depth	18-bit RGB (262K colors)
LCD mode	TN/normal white
LCD polarizer	transmissive
Pixel size	0.213 mm x 0.213 mm
Active surface	170.40 mm x 127.80 mm
Backlighting	LED
Contrast	typically 600 : 1
Brightness	typically 250 cd/m ²
Angle CR ≥ 10	left and right 75°, above 70° and below 60°

Connection Requirements

Connection technology	M16 plug
	special connector cable minimum bend radius: 147 mm

Article Number and Miscellaneous

Article number	01-245-835
Hardware version	1.x
Connector cable	optionally available
Standard	UL 508 (E247993)
Approbations	UL, cUL, CE

Notes

