

8.4" Handheld Operating Panel

HGT 835-11



The HGT 835-11 is an intelligent panel for visualizing, operating and monitoring automated processes. Process diagnostics is therewith simplified.

The handheld operating panel has the following Safety components: Emergency stop switch, key switch, confirmation switch.

A resistive touch screen serves as the input medium for process data and parameters. The output is shown on a 8.4-inch TN color display (SVGA 800 x 600) with LED backlighting.

Performance Data	
Processor	EDGE2-Technology
Processor cores	2
Internal program and data memory (RAM)	512-Mbyte (DDR3)
Internal remnant data memory	128-kByte MRAM
Internal storage device	4-Gbyte microSD card (3D-TLC pSLC technology)
Optional memory expansion	no
Graphic	integrated in EDGE processor
Interfaces	1x USB 2.0 Type A (Host) 10 m special cable => 1x VARAN bus (Tyco Mini I/O) 1x Ethernet (RJ45) Supply (2 strands) Safety (8 strands)
Internal interface connections and devices	1x TN color display 1x touch
Operating components	Confirmation switch (2 normally open contacts, 3-stage) Key switch (2 normally open contacts) Emergency stop switch (2 normally closed contacts)
Signal generator	no

Display Resolution	8.4" TN color display SVGA 800 x 600 pixels	
Operating field	Touch screen (analog resistive, 4-wire)	
Status LEDs	LED (green)	
Real-time clock	yes (ca. 10 days buffered)	
Cooling	passive (fanless)	

Electrical Requirements

Supply voltage	+24 V DC (SELV/PELV) UL: NEC Class 2	
Protection class	III	
Current consumption of (+24 V) power supply	typically 350 mA (with no external devices connected)	maximum 450 mA (with external devices connected)
Inrush current without current limiting supply	maximum 10 A for < 50 µs	
Inrush current with 24 V/10 A fixed voltage supply	maximum 1.2 A for < 10 ms	

Display

Type	8.4" TN color display	
Resolution	SVGA 800 x 600 pixels	
Color depth	18-Bit RGB (262K colors)	
LCD mode	normally white	
LCD polarizer	transmissive	
Pixel size	0.213 x 0.213 mm	
Active range	170.40 x 127.80 mm	
Backlighting	LED	
Contrast ratio	typically 600:1	
Brightness	typically 400 cd/m²	
Angle CR ≥ 10	from all sides 80°	
Life span	By compliance with the ambient conditions, the brightness of the display sinks after 20,000 operating hours to 50 % of the original brightness.	

Control Unit

Operating field	Touch screen (analog resistive, 4-wire)	
Maximum number of fingers	1	
SIGMATEK Touch pen (passive)	yes	
Cleaning	see chapter 15.1 Cleaning and Disinfecting the Touch Screen	

Input		
	Input	Touch screen (analog resistive, 4-wire)
	Emergency stop switch	1 (2 normally closed contacts)
	Confirmation switch	1 (2 normally open, 3-stage)
	Key switch	1 in series with confirmation switch (2 normally open contacts)

Special Cable Specifications		
	Length	10 m (flexible)
	Type/description	1P×24AWG+8C×24AWG+2×2P×26AWG+2C×22AWG
	Labeling	no
	Diameter	10.10 mm ±0.3
	Moving bend radius	10x diameter
	Stationary bend radius	5x diameter
	Voltage protection	300 V
	Environmental temperature	0 ... +80 °C
	Tensile strength	≥ 10.3 MPa
	Coating	PU
	Color	black matt (RAL 9005)
	General	RoHS & halogen-free
	Norms	UL 758, UL 1581 & style page UL 21198

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 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	EN 61000-6-2 (industrial area)
	EMC noise generation	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 IP54/Type12 (only with all protective in place) (not evaluated by UL)
	Free fall (with rough handling)	DIN EN 60068-2-31 500 mm
	Free fall (with packaging)	IEC 60068-2-32 500 mm

Miscellaneous		
	Article number	01-245-835-11
	Operating system	Salamander
	Default IP address	10.10.150.1
	Standard	UL 508, cULus
	Approvals	CE
	Mission time	20 years