

# Handheld Control Panel 10.4"

## HGT 1035



The HGT 1035 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 a 10.4" XGA TFT color display.

### 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
Internal I/O	no
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) confirmation switch (2 normally open, 3-stage) key switch (2 normally open) emergency stop switch (2 normally closed)
Display Resolution	10.4" TFT color display 1024 x 768 pixels
Control panel	5-wire touch screen (analog resistive)
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 +24V	typically 0.5 A (without externally connected devices)	typically 0.6 A (with external devices connected)
Inrush current	maximum 10 A for < 50 ms	
USB current load	maximum 0.5 A	

### Terminal

Dimensions	264 x 226 x 73.3 mm (W x H x D) (without key switch)
Material	housing: PC/ASA color: RAL7024
Weight	typically, circa 1.1 kg without connector cable

### Display

Type	10.4" TFT LCD color display
Resolution	XGA, 1024 x 768 pixels
Color depth	18-bit RGB (262K colors)
LCD mode	normal black
LCD polarizer	transmissive
Pixel size	0.0685 mm x 0.2055 mm
Backlighting	LED
Contrast	typically 1000 : 1
Brightness	typically 350 cd/m <sup>2</sup>
Angle CR ≥ 10	88° from all sides

### Terminal Requirements

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

### Article Number and Miscellaneous

Artikel number	01-245-1035
Hardware version	1.x
Connector cable	optionally available
Standard	UL 508 (E247993)
Approbations	UL, cUL, CE

### 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 <sup>2</sup>
Vibration resistance	10 m/s <sup>2</sup>	
Protection type	EN 60529	IP54 (with USB cover only)
Free fall (without packaging)	DIN EN 60068-2-31	500 mm

## Notes

