

Handheld Control Panel 10.1" HGT 1051



The HGT 1051 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 10.1" WXGA 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)	512-Mbyte
Internal remnant data memory	128-kbyte MRAM
Internal storage device	1024-Mbyte microSD card
Internal I/O	no
Interfaces	2x Ethernet 1x USB 2.0 Type A 1x Safety interface
Internal interface connections and devices	1x TFT LCD color display 1x USB (touch connection)

Control panel	touch screen (projective capacitive) confirmation switch (2 normally open, 3-stage) key switch (2 normally open) emergency stop switch (2 normally closed)
Display Resolution	10.1" TFT color display 800 x 1200 pixels
Signal generator	no
Real-time clock	yes (buffered circa 10 days via gold foil capacitor)
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 408 mA (without externally connected devices)	maximum 464 mA (with external devices connected)
Inrush current	maximum 12.4 A for < 60 µs	
USB current load	maximum 0.5 A	

Terminal

Dimensions	226 x 264 x 76 mm (W x H x D) (without emergency/key switch)
Material	housing: PC/ASA color: RAL7024
Weight	typically, circa 1.1 kg without connector cable

Display

Type	10.1" TFT LCD color display
Resolution	WXGA, 800 x 1024 pixels
Color depth	24-bit RGB
LCD mode	normal black
LCD polarizer	transmissive
Pixel size	0.1695 x 0.1695 mm
Backlighting	LED
Contrast	typically 800 : 1
Brightness	typically 300 cd/m ²
Angle CR ≥ 10	85° from all sides

Terminal Requirements

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

Article Number and Miscellaneous

Artikel number	01-245-1051
Hardware version	1.x
Connector cable	optionally available
Standard	UL 508 (E247993) in preparation
Approvals	CE, TÜV EC type tested, _c UL _{US} in preparation

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

Notes

