

Handheld Control Panel 10.1" HGT 1053



The HGT 1053 Control Panel is an intelligent panel for visualizing, operating and monitoring automated processes. Process diagnostics is therewith simplified. The projected capacitive touch screen serves as the input medium for process data and parameters. The output is shown on a 10.1-inch TFT color display (WXGA 800 x 1280) with LED backlighting.

Safety components:

Emergency stop switch

Key switch

Confirmation switch

Performance Data

Processor	EDGE3-Technology
Processor cores	4
Internal program and data memory (RAM)	2-Gbyte (DDR4)
Internal remnant data memory	128-kByte FRAM
Internal storage device	8-Gbyte microSD
Optional memory expansion	no
Graphic	integrated in EDGE processor
Interfaces	1x Ethernet (10/100/1000) 1x USB 2.0 Type A 1x Safety Interface
Internal interface connections and devices	1x TFT color display 1x USB 2.0 Type A 1x USB (touch connection) 1x microSD card holder (SD 3.0)

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	10.1" TFT color display WXGA 800 x 1280 pixels
Operating field	Touch screen (multi-touch, projective capacitive)
Status LEDs	Multi-LED (red/green)
Real-time clock	yes (battery buffered)
Cooling	semi-passive (fan activated only when required)

Electrical Requirements

Supply voltage	+24 V DC ±20 % (SELV/PELV) UL: Class 2 of LVLC	
Protection class	III	
Current consumption of power supply (+24 V)	typically 600 mA (without externally connected devices)	maximum 700 mA (with external devices connected)
Inrush current without current limiting supply	maximum 9 A for < 110 µs	
Inrush current with 24 V/10 A fixed voltage supply	maximum 1.9 A for < 500 ms	

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 1.25 kg without connector cable

Display

Type	10.1" TFT LCD color display
Resolution	WXGA, 800 x 1280 pixels
Color depth	24-bit RGB
LCD mode	normal black
LCD polarizer	transmissive
Pixel size	0.1695 x 0.1695 mm
Active range	216.96 x 135.6 mm
Backlighting	LED
Contrast	typically 800 : 1
Brightness	typically 300 cd/m²
Angle CR ≥ 10	85° from all sides

Article Number and Miscellaneous		
Artikel number	01-245-1053	
Connector cable	optionally available	
Operating system	Gecko	
Approvals	CE	yes
	UL	cULus (E247993)
	Functional Safety	yes
	UKCA	yes
Mission time	20 years	

Environmental Conditions		
Storage temperature	-10 ... +70 °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	
EMC resistance	EN 61000-6-2 (industrial area) (increased requirements according to EN IEC 62061)	
EMC noise generation	EN 61000-6-4 (industrial area) EN 61000-6-3 (residential 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/s ²)
Protection type	EN 60529 protection through housing	IP54 (only with all protective in place)
Free fall (with rough handling)	DIN EN 60068-2-31	1000 mm
Free fall (with packaging)	IEC 60068-2-32	1000 mm

Notes