

Handheld Control Panel 10.1” HBG 1012



In combination with the SIGMATEK HMI-Link Gen 2.1 and a safety-related PLC, the HBG 1012 is a cable-connected (permanently installed hybrid cable, 20 m) handheld operating unit with an emergency stop function that enables the programming, visualization and diagnosis of processes and systems control.

Process data, procedures and parameters are comfortably presented on the 10.1” display and can be entered or changed via the touch screen.

Performance Data

Interfaces	1x HMI-Link Gen 2.1 1x USB 2.0 Type A 1x Safety interface
Internal interface connections and devices	1x TFT color display 1x USB (touch connection)
Control elements	1x confirmation switch (2 normally open, 3-stage) 1x key switch (2 normally open) 1x emergency stop switch (2 normally closed contacts)
Signal generator	no
Display Resolution	10.1” TFT color display, 16:10, landscape mode WXGA 1280 x 800 pixels
Operating field	Touch screen (multi-touch, projective capacitive)
Status LEDs	1x back
Real-time clock	no
Temperature sensors	none
Cooling	passive (fanless)

Electrical Requirements

Supply voltage	typically +24 V DC $\pm 20\%$ (SELV/PELV), UL: NEC Class 2	
Current consumption Power supply +24 V	typically 480 mA (without externally connected devices)	maximum 560 mA (with externally connected devices)
Protection class	III	
Inrush current	maximum 26 A for $< 50 \mu s$	
USB current load	maximum 0.5 A	

Display

Type	10.1” TFT LCD color display
Active area	135.6 x 216.96 mm
Resolution	WXGA 1280 x 800 pixels
Color depth	18-bit RGB (16.7 million colors)
LCD mode	normally black
LCD polarizer	transmissive
Pixel size	0.1695 x 0.1695 mm
Backlighting	LED, adjustable
Contrast	typically 800:1
Brightness	typically 300 cd/m ²
Angle CR ≥ 10	85° from all sides

Input

Input	Multi-touch screen (PCAP)
Emergency stop switch	1
Confirmation switch	1 (3 switch positions with panic function)
Key switch	1 (2 switch positions)

Environmental Conditions		
Storage temperature	-5 ... +60 °C	
Ambient temperature	0 ... +45 °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	according to EN 61000-6-2 (industrial area) according to 61000-6-7 (noise immunity industry-functional Safety) (increased requirements according to EN IEC 62061)	
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm of 5-8.4 Hz 1 g of 8,4-150 Hz
Shock resistance	EN 60068-2-27	115 g (147.15 m/s²)
Protection type	EN 60529/NEMA 250	IP54/Type12 (only with all protective caps in place) (not evaluated by UL)
Free fall (with rough handling)	DIN EN 60068-2-31	1000 mm
Free fall (with packaging)	IEC 60068-2-32	500 mm

Article Number and Miscellaneous		
Article number	12-245-1012	
Standards	designed according to UL	
Approvals	CE, TÜV-Austria EG Type Tested	
Dimensions	264 x 236 x 76 mm (W x H x D)	
Material	Housing: PC/ASA Color: RAL7024 Front: Glass 1.1 mm	
Weight	3.30 kg incl. connector cable (permanently installed hybrid cable, 20 m)	

Notes