

Wireless Handheld Operating Panel 10.1" HGW 1033-3



In combination with a BWH 001 base station and a safety-related PLC, the HGW 1033-3 is a wireless, intelligent manual operating unit with emergency stop function that enables the programming, visualization and diagnosis of processes and systems control.

The HGW 1033-3 can be coupled with machines via base stations, which allows the flexible application of the operating station.

The interfaces can be used to configure the terminal. The integrated battery pack guarantees 2 hours of operation at full capacity.

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)	2048-Mbyte
Internal remnant data memory	512-kbyte MRAM
Internal storage device	512-Mbyte microSD card, expandable
Internal I/O	no
Battery	3780 mAh Lithium-Ion Runtime: > 2 h continuous operation with new battery Charge/status display via the on/off button
Charging time	3 h via USB-C as well as base station at 25 °C with a rising temperature and active use of the device, the charge time may increase
Interfaces	1x USB 2.0 Type-A (Host) 1x USB 2.0 Type-C (Dual Role Port, charge) 1x WLAN dual-band (2.4 GHz, 5 GHz simultaneously)

Internal interface connections and devices	1x TFT color display 1x USB (touch connection)
Control Elements	Touch screen (multi-touch, projective capacitive) 1x confirmation switch (2 normally open, 3-stage) 1x key switch (2 normally open) 1x illuminated emergency stop switch (2 normally closed) 1x illuminated on/off button (with application interface)
Display Resolution	10.1" TFT color display, 16:10, portrait mode WXGA 800 x 1280 pixels
Status LEDs	3x front (controllable via application) 1x rear (boot status/controllable via the application) 1x normally open gate (shows power and charge status)
Signal generator	yes (at least 83 dB at 30 cm)
Real-time clock	yes (buffered circa 3 days via internal battery)
Temperature sensors	4 (2x LP, 1x CPU, 1x battery)
Cooling	passive (fanless)
Coupling display	7-segment LED, two-digit
Input voltage measurement	yes

Electrical Requirements

Charging voltage magnetic connector	typically +19 V DC	
	minimum +15 V DC	maximum +24 V
Charging current	via base station: up to 2.5 A at 15.5 V	
USB host current load	maximum 0.5 A	

Display

Type	10.1" TFT LCD color display
Active range	135.6 (V) x 216.96 (H) mm
Resolution	WXGA 800 x 1280 pixels
Color depth	18-bit RGB (16.7 million colors)
LCD mode	normal black
LCD Polarizer	transmissive
Pixel size	0.1695x0.1965 mm
Backlighting	LED, adjustable
Contrast	typically 800 : 1
Brightness	typically 300 cd/m²
Angle CR ≥	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)
Power button	1

Environmental Conditions	
Storage temperature	-5 ... +60 °C (in transport mode)
Environmental temperature discharging	0 ... +50 °C
Environmental temperature charging	0 ... +40 °C
Humidity	10-90 %, non-condensing
Operating conditions	pollution degree 2 altitude up to 2000 m
EMC resistance	EN 61000-6-2 (industrial area) (increased requirements according to IEC/EN 62061)
EMC noise generation	EN 61000-6-4
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 (rough handling)	DIN EN 60068-2-31 1000 mm
Free fall (with packaging)	IEC 60068-2-32 500 mm

WLAN 2.4 GHz	
Frequency range	2399.5-2484.5 MHz
Transmission power max.	20 dBm (100 mW) EIRP
Channels	1-14 (2400-2483.5 MHz)

WLAN 5 GHz	
Frequency range	5150-5350 MHz 5470-5725 MHz
Transmission power max.	23 dBm (200 mW) EIRP
Channels	36-64 (5180-5320 MHz) 100-140 (5500-5700 MHz)

Antennae	
Number	2
Frequency range	2.4/5 GHz
Transmission power max.	25 W
Antenna gain	2.4 GHz-4 dBi Peak Gain 5 GHz-4 dBi Peak Gain
Impedance	50 Ω
Transmission angle/characteristic	Transmission characteristic: omnidirectional Polarization: linear

Article Number and Miscellaneous	
Article number	12-246-1033-3
Approvals	CE
Dimensions	226 x 264 x 75.75 mm (W x H x D)
Material	housing: PC/ASA color: RAL7024
Weight	typically 1.35 kg