H4 Wireless Handheld Tech-Note

The H4 Wireless Handheld HMI is a compact and lightweight device with an ergonomic design. Wireless connection with certification for safety devices makes this product the ideal solution for industrial applications. Integrated devices (Keyboard, potentiometers, handwheel) can be fully programmed assuring a quick use with your automation project. H4 is fully programmable with JMobile.

- 5" TFT color display
- 480x272 pixel resolution, 64K colors
- Resistive touchscreen
- USB Host port
- Emergency stop button
- 3-positions enabling switch
- 2 potentiometers
- 1 optional handwheel
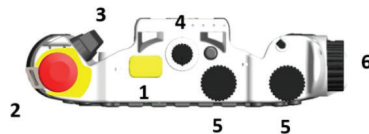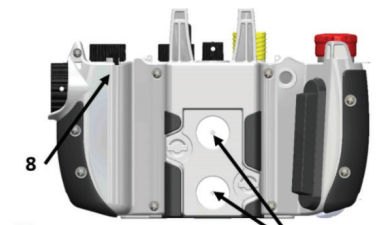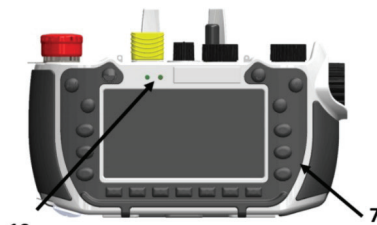- 19 user-programmable selection keys

Highlights

The H4 Wireless handdeld brings the power and flexibility of JMobile HMI to the factory floor. Wireless connection with certified functional safety avoids the safety concerns related to cable in industrial environments.
The H4 handheld has been designed to run the JMobile software. It includes a JMobile runtime. Full compatibility with JMobile V2.0 or higher.

- Supports JMobile Ethernet protocols
- Requires a Wi-Fi access point for Ethernet communication (not part of the delivery package)
- Hanging magnets.

System Resources	
Display - Colors	TFT LED - 64K
Resolution	480x272
Brightness	300 Cd/m² typ.
Dimming	to 0%
Touchscreen	Resistive
CPU	ARM Cortex-A8 - 600 MHz
Operating System	Microsoft Windows CE 6.0
Flash	128 MB
RAM	256 MB
Real Time Clock, RTC Back-up	Yes
Handwheel	Yes
Potentiometer	2
State Selector Switch	16 positions
Emergency stop	Yes
Enabling Switch	3 positions
Interface	
Ethernet	Wi-Fi 802.11
USB port	1 Host V2.0
Bluetooh	Reserved for safety functions
Ratings	
Power supply (charging station)	24 Vdc (18 to 30 Vdc)
Current Consumption	0.25 A at 24 Vdc (max.)
Input Protection	Automatic
Battery	Rechargeable Lithium battery, not user-replaceable
Environment Conditions	
Operating Temp	+5 to +45°C
Storage Temp	-20 to +70°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP64
Dimensions and Weights	
Faceplate LxH	220x144 mm
Depth D+T	63 mm
Weight	Approx 0.8 Kg
Approvals	
CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
Safety	2006/42/EC, EN ISO 13849-1:2008, EN 62061 :2005/A1:2013, EN 60204-1:2006/A1:2009
Safety functions	Emergency Stop cat 3, PL d / SIL 2 Enabling cat 3, PL d / SIL 2 State selector, cat 1, PL c / SIL 1
UL	cULus: UL508

1 Token receptacle
2 Stop pushbottom
3 Enabling device
4 State Selector
5 Potentiometers
6 Handwheel
7 Membrane Keypad
8 Touchscreen pen
9 Mounting magnets
10 Status LED's
11 Battery Recharging Contacts

Ordering Information

Model	Part Number	Description
H4	+EP4H4SWJ0H0YE0	HMI H4 0N3 WIRELESS JM
H4	+EP4H00000A0YA0	ANTENNA + COUPLING TOKEN
H4	+EP4H00000R0YA0	RECHARGING STATION H4
H4	+EP4H00005C0YA0	CIS H4