TOPCO
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øn3 safety&controls   Tech-note

H4 Wireless Handheld HMI

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.
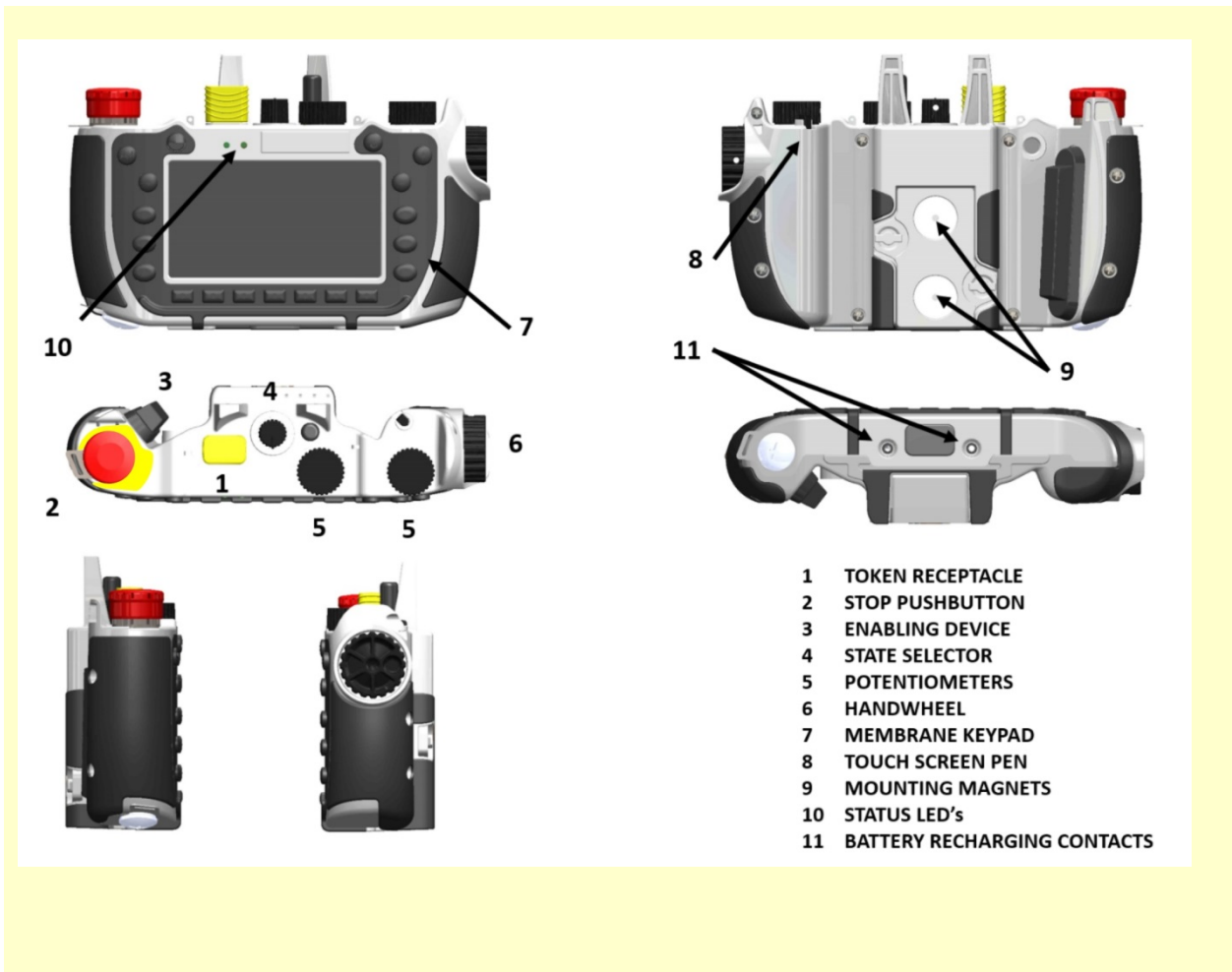The H4 handheld has been designed to run the JMobile software. It includes a JMobile runtime. Full compatibility with JMobile V2.0 or higher.

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

Tech-note

Technical Data

Display

Type	TFT
Resolution	480x272, WQVGA
Active display area	5" diagonal
Colors	64K
Backlight	LED
Brightness	300 Cd/m^2 typ.
Dimming	Dimmable to 0%

System Resources

Operating System	Microsoft Windows CE 6.0
User memory	128 MB Flash
RAM	256MB DDR

Operator Interface

Touchscreen	Resistive
LED indicators	2

Interface

Ethernet	Wi-Fi 802.11
Bluetooth	Reserved for safety functions
USB	Host Interface Interface version 2.0
Serial	-
Memory Card	-
Expansion	-
Handwheel	Yes (option)
Potentiometer	2
State selector switch	16 positions
Emergency stop	Yes
Enabling switch	3 positions

Functionality

Hardware Real Time Clock	Yes, with battery back-up
Screen saver	Yes
Buzzer	-

Ratings

Power supply voltage	24 Vdc (18 to 30 Vdc)
Current consumption	0.25 A at 24Vdc (max.)
Fuse	Automatic

Weight	Approx 0.9 Kg
Battery (power)	Rechargeable Lithium battery
Battery (RTC backup)	Rechargeable Lithium battery, not user-replaceable

Environmental Conditions

Operating temperature	5° to +45 °C
Storage temperature	-20° to +70 °C
Operating and storage humidity	5 – 95 % relative humidity, non-condensing
Protection class	IP64

Dimensions

Faceplate LxH	220x144 mm
Cutout AxB	-
Depth D+T	63 mm

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

Connections

1	TOKEN RECEPTACLE
2	STOP PUSHBUTTON
3	ENABLING DEVICE
4	STATE SELECTOR
5	POTENTIOMETERS
6	HANDWHEEL
7	MEMBRANE KEYPAD
8	TOUCH SCREEN PEN
9	MOUNTING MAGNETS
10	STATUS LED's
11	BATTERY RECHARGING CONTACTS

Ordering Information

Model	Part Number	Description
H4	+H4SISTEMA001	Wireless handheld, 5" TFT color touchscreen, emergency stop button, enabling switch, state selector, handwheel, JMobile runtime. Package includes H4 handheld, Receiving station, Charging station with spare battery, Antenna, Token