![øn3 safety&controls logo] Tech-note

H3 Wired Handheld HMI

The H3 Wired Handheld HMI is the compact and ergonomic handheld with small dimensions and weight. Its integrated devices (Keyboard, potentiometers, handwheel) can be fully programmed assuring a quick integration with your automation project. H3 includes an emergency stop button and a three-positions enabling switch. H3 is available either with Ethernet or serial interface.

- 5" TFT color display
- 480x272 pixel resolution, 64K colors
- Resistive touchscreen
- Ethernet connection or serial connection
- USB Host port
- Emergency Stop button and Enabling Switch
- 2 potentiometers
- 1 optional handwheel
- 19 user-programmable selection keys
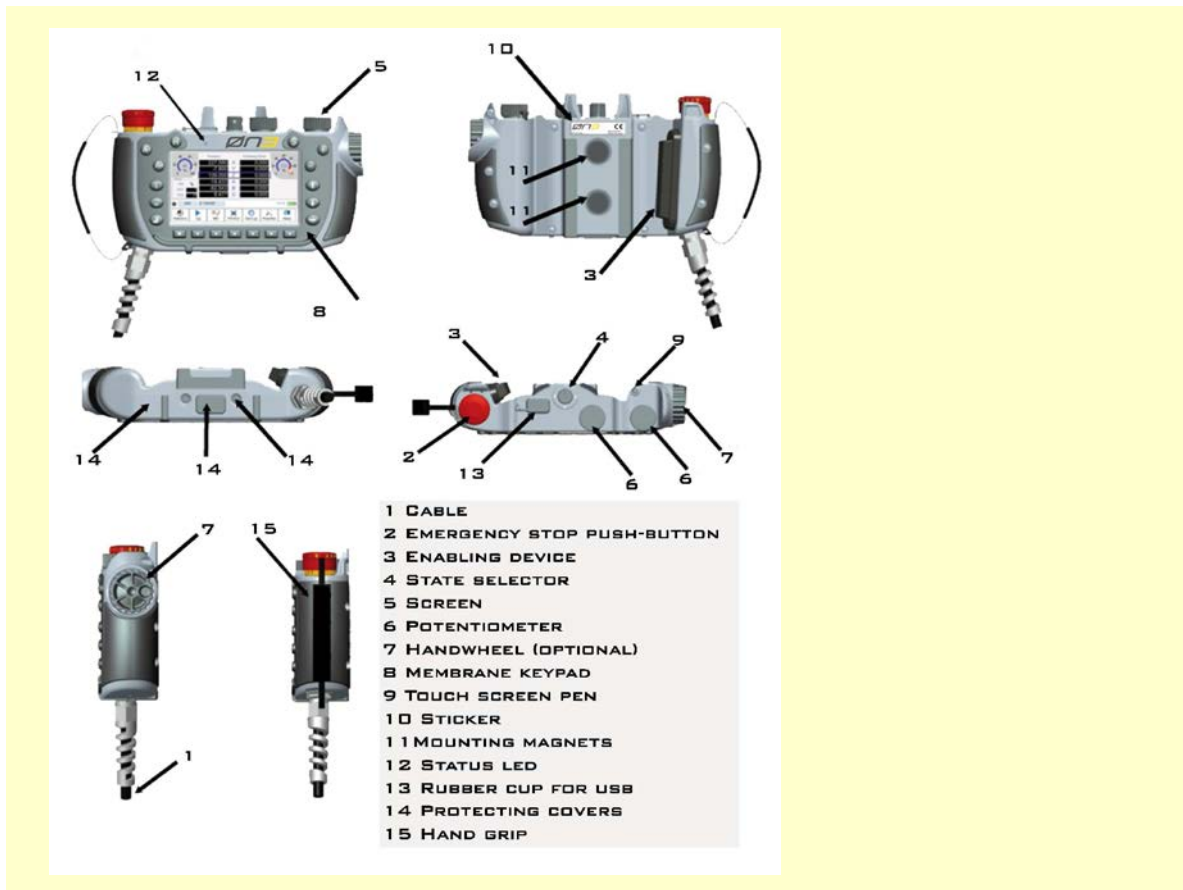- Hanging magnets

Highlights

The H3 handheld has been designed to run the JMobile software.

- JMobile runtime included. Full compatibility with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects. Trasparency and alpha blending.
- Full object dynamics: control visibility and transparency, move, resize, rotate objects on screen. Change properties of basic and complex objects.
- TrueType fonts
- Multilanguage applications. Easily create and manage your applications in multiple languages to meet global requirements.
- Rich set of state-of-the-art HMI features: graphical presentation of data presentation, data acquisition, alarm handling, scheduler and timed actions, recipe data storage, users and passwords, e-mail and RSS feeds, rotating menus.
- Indexed addressing and cross-reference viewer.
- Wide selection of communication drivers for factory and building automation.
- Multiple drivers communication capability.
- Remote monitoring and control. Client-Server functionality. Mobile clients supported.
- Remote maintenance and support with VNC-based functionality.

- Off-line and on-line simulation of the HMI application with JMobile Studio.
- Powerful scripting language for automating HMI applications. Includes script debugger.
- Create and print reports to printers and to file.
- Page templates to simplify application design.
- Rich gallery of symbols and objects.
- Mediaplayer widget
- IP Network camera widget
- Optional CoDeSys SoftPLC
- Optional connection box for fast installation and connection.

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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	1

Interface

Ethernet	10/100 Mbit (selected models)
USB	Host Interface V2.0
Serial	1 RS-232/RS-422/RS-485(selected models)
Memory Card	-
Expansion	-
Handwheel	Yes (option)
Potentiometer	2
State Selector Switch	16 positions
Emergency Stop	Hardwired
Enabling Switch	Hardwired, 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 0.8 Kg (not including cable)
Battery	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	220x130 mm
Cutout AxB	-
Depth D+T	50 mm

Approvals

CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
UL	UL508 Listed Only: +EP3H3REJ2H0YE2 +EP3H3REJ4H0YE2

Connections

1 Cable
2 Emergency stop push-button
3 Enabling device
4 State selector
5 Screen
6 Potentiometer
7 Handwheel (optional)
8 Membrane keypad
9 Touch screen pen
10 Sticker
11 Mounting magnets
12 Status led
13 Rubber cup for usb
14 Protecting covers
15 Hand grip

Ordering Information

Model	Part Number	Description
H3	+EP3H3REJ200YE1	H3 handheld HMI, Ethernet interface, 10 meters, JMobile runtime
	+EP3H3REJ2H0YE1	H3 handheld HMI, Ethernet interface, 10 meters, handwheel, JMobile runtime
	+EP3H3REJ2H0YE2	H3 handheld HMI, Ethernet interface, 10 meters, circular connector, handwheel, JMobile runtime, UL approval
	+EP3H3REJ400YE1	H3 handheld HMI, Ethernet interface, 20 meters, JMobile runtime
	+EP3H3REJ4H0YE1	H3 handheld HMI, Ethernet interface, 20 meters, handwheel, JMobile runtime
	+EP3H3REJ4H0YE2	H3 handheld HMI, Ethernet interface, 20 meters, circular connector, handwheel, JMobile runtime, UL approval
	+EP3H3RSJ200YE1	H3 handheld HMI, serial interface, 10 meters, JMobile runtime
	+EP3H3RSJ2H0YE1	H3 handheld HMI, serial interface, 10 meters, handwheel, JMobile runtime
CONNECTION BOX	+EP3H00000X0YA2	Connection box with circular connector, UL approval
STANDBY STATION	+EP3H00000B0YA0	Holder for H3