X5 Wireless Tech-Note

Mobile HMI 5” TFT, 480x272, Resistive Touch

- 5” TFT color display
- 480x272 pixel resolution, 64K colors
- Resistive touchscreen
- Emergency Stop button with illumination
- 3-Positions Enabling Switch
- 19 User-programmable Selection Keys
- 2 USB Host
- NFC (Optional)
- 3D Accelerometer

Highlights

The X5 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. X5 is fully programmable with JMobile.

Working in combination with the Xbase (Base Station) as a peer-to-peer SIL3 rated Wi-Fi connection, the flexibility of the X5 can be realised.

Where there exists the need to easily connect and command movement by distance. Where a full day’s battery life is useful. Where the fatigue of the operator is important to reduce so that human errors do not occur....the X5 system provides the most ground-breaking solution.

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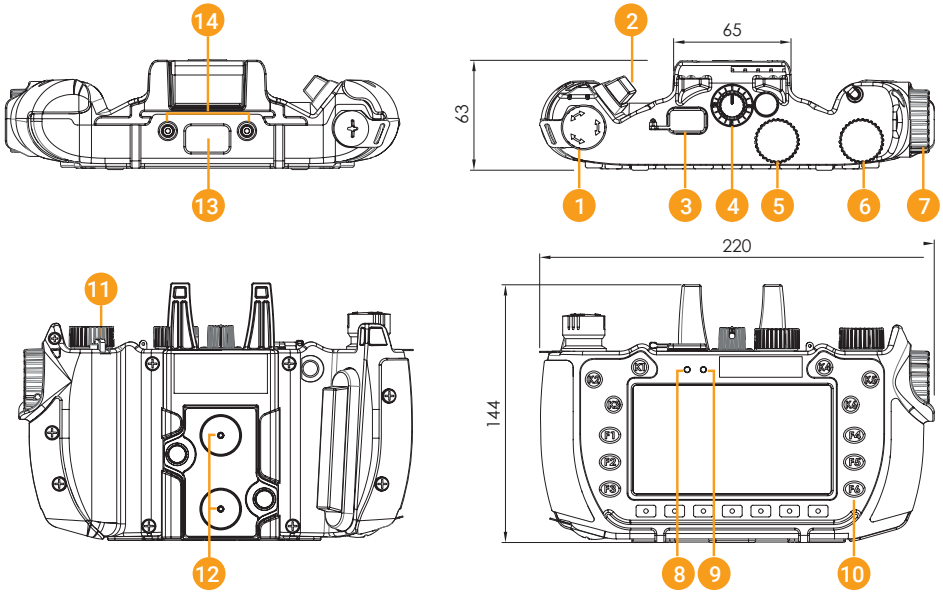
X5 Wireless - Technical Data

System Resources	
Display - Colors	5" TFT LED - 64K colors
Resolution	480x272
Brightness	300 Cd/m² typ.
Dimming	Yes
Touchscreen	Resistive
CPU	32-bit RISC Single Core 528 MHz
Operating System	Linux 4.14
Flash	4 GB
RAM	512 MB
Real Time Clock, RTC Back-up	Yes, rechargeable Lithium battery (not user-replaceable)
Handwheel	Yes
Potentiometer	2
Selector Rotary Switch	16 positions
Emergency Stop Button	Yes, illuminated
Enabling Button	3 positions
Status Indicators	2 bi-color LED
Keys	19 user-programmable
Sensors	3-axis Accelerometer, Temperature (internal)
Buzzer, Vibrator	Yes
Interface	
Wireless	IEEE Std 802.11a/b/g/n
USB	2 Host V2.0, 250mA max
NFC	Yes (optional)
Ratings	
Power Supply	Rechargeable Battery
Battery capacity	4400 mAh
Charging Station	Yes
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	Radio Equipment Directive 2014/53/EU (RED) - Machine Directive (2006/42/EC)
FCC	In progress
Electrical Safety	EN 61010-1 / EN 61010-2-201, UL61010-1 / UL61010-2-201
Safety functions	SIL (IEC 61508): Emergency Stop SIL3, Enabling Device SIL 3, Selector SIL 1 - Performance Level (EN ISO 13849-1): Emergency Stop PL=d, Cat.3, Enabling Device PL=d, Cat.3, Selector PL=b, Cat.B

1 Emergency Stop Button
2 Enabling Button
3 USB
4 Selector
5 Potentiometer 2
6 Potentiometer 1
7 Handwheel
8 Bicolor-LED 1
9 Bicolor-LED 2
10 Keypad
11 Touchscreen pen
12 Hanging magnets
13 USB
14 Battery charging contacts



Ordering Information

Model	Part Number	Description
X5 Wireless	10100390YE-0001	Mobile HMI 5" TFT, 480x272, Resistive Touch, 4 GB Flash memory, Wi-Fi, JMobile runtime
Xbase	10100390YE-0000	0N3 BASE STATION X5
Xcharging	10100390YE-0002	RECHARGING STATION

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