

DATASHEET

WIRELESS E-STOP

Foundation Series

PRODUCT

WIRELESS E-STOP

SOURCE DOCUMENT

FORT_Wireless_E-Stop_Datasheet_043026.pdf



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Stop Machines from a Safe Distance

- ✓ Easy integration
- ✓ Advanced safety
- ✓ Long range
- ✓ Flexible pairing

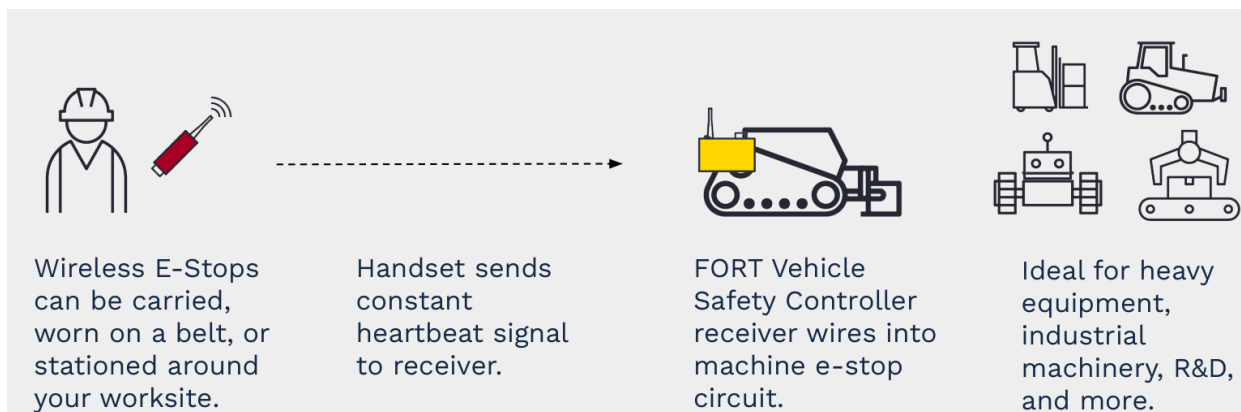
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Safety in the Palm of Your Hand

Prevent accidents and protect your team with FORT's Wireless E-Stop (WES.) The handheld emergency stop button shuts down one or more machines with the push of a button. Designed to meet industry safety standards, the Wireless E-Stop uses a patented communication protocol for maximum reliability. Reduce risk and increase productivity by ensuring that worksite safety is always within reach.

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Prevent Accidents and Downtime for Any Application



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WIRELESS E-STOP FEATURES

Reliable Communication

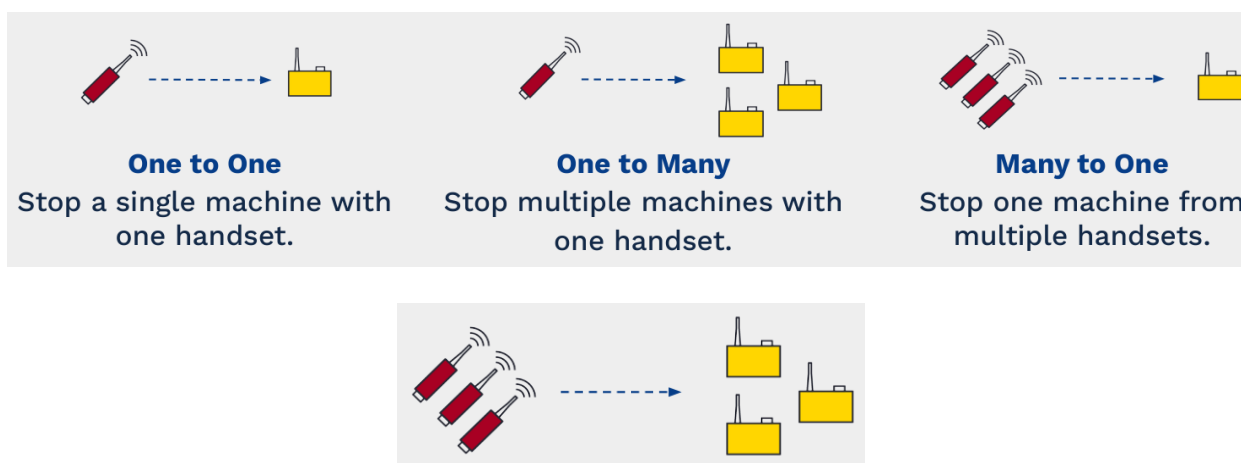
FORT's patented wireless technology is designed for safety and dependability. The handset sends constant heartbeat signals to receiver. An e-stop command is triggered if the connection is lost for any reason.

Easy Integration

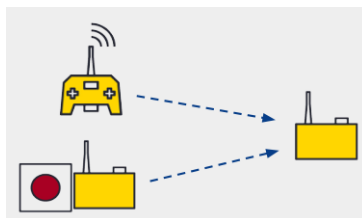
FORT's **Vehicle Safety Controller** receiver wires into any e-stop circuit. Bolt-on and embedded options available.

Flexible Pairing

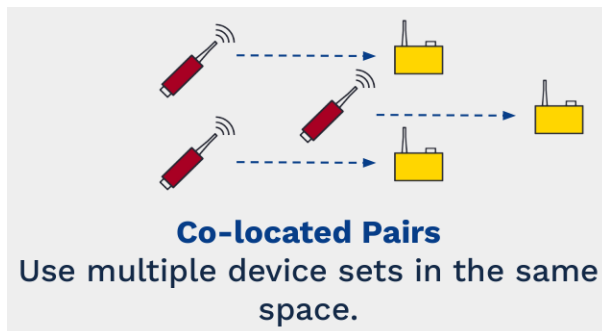
Easily pair devices using FORT's drag-and-drop configuration tool for Windows and Linux. Combine devices for multipoint configurations:



Many to Many Combine multiple senders and receivers.



Combine with Other Foundation Series Devices FORT's Wireless E-Stop, Vehicle Safety Controller, and Safe Remote Control can be combined in multipoint configurations.



Radio Options

900 MHz: Line of sight range up to 2km. Combine up to 12 or more devices per configuration.*

2.4GHz: Line of sight range up to 200m. Combine up to 3 devices per configuration.

**Exact limit determined by customer safety analysis.*

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WIRELESS E-STOP DETAILS





- Illuminated E-Stop button. LED indicates connection and signal strength.
- IP65 enclosure
- Antenna connector
- Mini USB-B charging port with cover
- Power button with LED light indicates fully charged, 20%, and 10% battery levels.



Receiver: Vehicle Safety Controller

For technical details and more information on FORT’s Vehicle Safety Controller, please visit the [FORT website](#) or download the [datasheet here](#).

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WIRELESS E-STOP TECHNICAL SPECIFICATIONS

PART NUMBERS	WES-001-2401	WES-001-901
Device Form Factor	Handheld wireless emergency stop with belt clip	
Dimensions (no antenna)	163mm x 47mm x 47mm (6.4” x1.95” x 1.95”)	
Base Unit Weight	310 g (0.68 lbs)	
Operating Temperature	-20°C to 60°C (-4°F to 140°F)	
Charging Temperature	Charges at 0°C to 45°C (32°F to 113°F)	

PART NUMBERS	WES-001-2401	WES-001-901
Charging Voltage	5V DC @ 2A (USB)	
Battery Type	Lithium Ion, 10.4 Watt Hours	
Battery Life	Up to 12 hours; Operates while charging	
Connectors	Mini USB-B	
Inputs	1 dual channel e-stop switch	
Ruggedness	Designed to meet MIL-STD-810	
Ingress Protection	IP65	
Safety	E-Stop functionality designed to meet SIL 2 (per IEC 61508) and Cat 3, PLd (per ISO 13849)	
Safety Timeout Period	Configured by user <i>Default TX Rate: 35 ms; Default RX Timeout: 332 ms (includes latency)</i>	
Regulatory	Radio modules FCC & IC compliant (US & Canada)	
Receiver	FORT Vehicle Safety Controller (VSC) receiver (mounted or embedded versions available)	
Multipoint Pairing Options	Pair 1 or more Wireless E-Stops with one or more receivers 900 MHz: Number of devices depends on customer safety analysis and timeout requirements (typically up to 12 per system.) 2.4GHz: Up to 3 devices per system	
Pairing Interface	FORT configuration tool for Linux and Windows	
ISM Radio	2.4 GHz	902-928 MHz (US, Canada)
Maximum Wireless Range <i>May vary based on antenna placement and environment</i>	200m Line of sight	2 km Line of sight
Output Radio Transmission Power	20-30dBm <i>Be sure to follow all local RF communication regulations while operating.</i>	

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WIRELESS E-STOP PART NUMBERS & ACCESSORIES

Wireless E-Stop Handsets

(Wrist strap and belt clip included)

Wireless E-Stop with 2.4GHz radio**WES-001-2401****Wireless E-Stop with 902-928 MHz radio** *for US and Canada***WES-001-901****Starter Kits: Bundles including all recommended accessories**

Starter Kit Accessory Bundle for WES-001-2401	100-0141
<i>Includes all of the following:</i>	100-0029
USB Cable Type A to mini-B, 3ft	270-0004
USB Power Type A connector, 10W	275-0003
2.4 GHz antenna, RP-SMA male	
Starter Kit Accessory Bundle for WES-001-901	100-0140
<i>Includes all of the following:</i>	100-0029
USB Cable Type A to mini-B, 3ft	270-0004
USB Power Type A connector, 10W	275-0002
750-950 MHz antenna, RP-SMA male	
Individual Accessories	
USB Cable Type A to mini-B, 3ft	100-0029
USB Cable, Type A to mini-B, 6ft	250-0160
USB Power Type A connector, 10W	270-0004
750-950 MHz antenna, RP-SMA male	275-0002
2.4 GHz antenna, RP-SMA male	275-0003

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Warranty & Support Options

Foundation Series

Coverage for Wireless E-Stop, Safe Remote Control, Vehicle Safety Controller, and Wired Remote Control. All devices ship with Standard coverage in year one. An active warranty is required for any device support or service.

	Standard <i>Included year 1 · Renewable annually</i>	Advantage <i>Available upgrade · Renewable annually</i>
Product Codes	870-0050 (Year 1) 870-0051 (Extension)	870-0052
SUPPORT		
Support Channels	Email & Portal	Email, Phone & Portal
Coverage Window	Business hours (M–F, ET)	24×7
Escalation Path	—	Priority escalation & scheduled reviews
RESPONSE SLAs		
Priority 1 — System Down	Best effort	< 1 hour
Priority 2 — Degraded	Best effort	< 4 hours
Priority 3 — General	Best effort	< 8 hours

WARRANTY & REPLACEMENT

Warranty Shipping	Standard handling	Priority handling
Advanced Replacement	Within 2 weeks	Within 3 days

When Standard Works

- ▶ Low-risk or lower-duty-cycle applications.
- ▶ Spare or reserve devices for staged deployments.
- ▶ Single-shift operations where best-effort response is acceptable.

When Advantage Pays Off

- ▶ Production-critical devices where downtime has real cost.
- ▶ 24×7 operations or safety-critical environments.
- ▶ Sites where a 2-week replacement window is unacceptable.

Product Code**Description**

870-0050

Device Warranty — Standard, Year 1 (included with every device)

870-0051

Device Warranty — Standard, annual extension

870-0052

Device Warranty — Advantage, annual

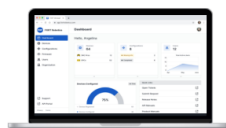
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FORT ROBOTICS CONTROL PLATFORM**Pro Series**

**Safe Remote
Control Pro**



**Endpoint
Controller**



FORT Manager



**Nano Safety
Controller Pro**



**Wireless
E-Stop Pro**

Foundation Series

**Safe Remote
Control**



**Vehicle Safety
Controller**



**Wireless
E-Stop**



**Wired Remote
Control**

Professional Services



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