

FORT

Safe Remote Control

Durable and Reliable Machine Controller



Wireless control for any machine

FORT's Safe Remote Control (SRC) is an easy-to-use, handheld controller for a variety of applications. With the SRC, users can operate off-road vehicles from a distance, take temporary control of an autonomous robot when it's in a jam, or control and command a smart machine.

FORT's rugged remote control with integrated E-Stop button keeps you in control of machines and ensures maximum safety, reliability, and productivity.

Prevent accidents and injuries

- Operate dangerous equipment from a safe distance
- Improve visibility of the worksite
- Relieve fatigue and reduce injury from heavy equipment operation

Boost productivity

- Remote control operation increases work site productivity
- Lightweight, ergonomic design for comfortable, all-day use
- Familiar game-style format accelerates operator training time

Built for Safety

- Patented wireless system for safety-critical commands
- Built-in emergency stop button and drop detection
- Adheres to leading industry safety requirements

Applications

CONSTRUCTION:

Allows operators to work from outside the cab at a safe vantage point

AGRICULTURE:

Enables autonomous harvesters or other equipment to be remotely stopped and controlled in a safe way

ROBOTIC SYSTEMS:

Use with mobile robots or autonomous vehicles for teaching and maintenance

LABS AND R+D:

Accelerate development and testing with trusted safety controls



The Safe Remote Control pairs with FORT's Vehicle Safety Controller receiver (VSC).



The wireless remote with integrated e-stop button enables control from a safe distance



The remote and receiver are in constant two-way communication.



The Vehicle Safety Controller (VSC) wires into machine's CAN bus and e-stop circuit

SPECIFICATIONS

WIRELESS FREQUENCY OPTIONS

- 900 MHz FHSS
- 2.4 GHz FHSS

LINE OF SIGHT RANGE

- Up to 2km at 900 MHz
- Up to 500m at 2.4 GHz
- May vary based on antenna placement, obstructions, and environment

TRANSMIT POWER

- Up to 1W, subject to local regulations

LATENCY

- TX Rate: 35 ms default
- RX Timeout: 332 ms default
- Configuration-dependent

SAFETY RATING

- Designed to ISO 13849 PLd Cat 3

HANDSET: SAFE REMOTE CONTROL (SRC)

- Battery life: Up to 12 hours
- Operates while charging
- IP65 enclosure
- Operating temperature: -20°C to 60°C
- Input voltage, charging: 5V DC @ 2A (USB)
- Measures 7.25" x 6.5" x 3"
- Approximately 1.1 lbs
- Drop and abandonment detection (user configurable)
- Sunlight-readable LCD, backlight setting
- Controls:
 - Built-in emergency stop safety control
 - (2) 2-axis joysticks
 - (2) 1-axis finger sticks
 - (8) buttons

RECEIVER: VEHICLE SAFETY CONTROLLER (VSC-006)

- CAN-J1939, RS232 and USB data interfaces
- Dual channel emergency stop input loop
- Dual channel safety relays for emergency stop output
- IP 66 enclosure
- Operating temperature: -40°C to 70°C
- Input power: 9-36V
- RP-SMA female antenna connector
- Measures 5.9" x 3.2" x 2.5"
- LED indicators for e-stop status
- Embedded options also available; contact FORT for details