Wireless Mobile Machine Control
Remote Control Solutions for Smooth Operation and Precise Control of Industrial Machinery
OMNEX is the industry pioneer and leader in developing rugged radio remote controls for heavy machinery and field operations. For more than 25 years, OMNEX remote control products have been used to wirelessly control high value machinery in harsh environments with utmost reliability, precision and durability.

Our product portfolio of mobile control transmitters and receivers are robust, easy to use, configurable and stand up under the most demanding industrial conditions.

We develop OEM solutions for applications that require high degrees of operator flexibility and safety when operating and manipulating vehicle mounted equipment and mobile machinery. Our customers are OEM machinery builders who want to leverage wireless control to achieve greater safety and productivity for machine operators. Our products offer the latest technology, provide enhanced ergonomics and controller aesthetics, and put more and better machine info in operators hands.

Technology for High Value Mobile Hydraulic Machinery

Home of OMNEX Trusted Wireless

Our comprehensive family of OMNEX Trusted Wireless products features OMNEX proprietary FHSS (Frequency Hopping Spread Spectrum) technology, proven on high value machines, under heavy interference and in noisy, high-voltage environments. That kind of reliability has earned our FHSS technology the title: Trusted Wireless. OMNEX Trusted Wireless remote control radios are the most reliable, cost-effective and trusted wireless control solutions available today.

- OMNEX Trusted Wireless™ FHSS radio control technology
- Rugged, weatherproof enclosures
- Vibration, temperature and humidity tolerant electronics
- Sophisticated control algorithms to guarantee fail-safe operation
- Machine-to-machine and man-to-machine applications
- Configurable I/O for digital and/or proportional control

Markets Served

Our mobile control products are used extensively in mining, construction, agriculture, locomotive and marine markets, in applications that include on road, off road and material handling equipment.
Mobile Machine Control Product Portfolio

Transmitters
Our robust, easy-to-use one-way and two-way remote control transmitters are designed to perform on a variety of mobile industrial machines. OMNEX industrially hardened Trusted Wireless FHSS radio technology and impact resistant packaging are your assurance of dependable operation and precise control.

T0200 Remote Control with Color LCD Display
- State-of-the-art, ergonomic design
- Lightweight
- Customizable multi-function controller with extensive controls capability
- Superior 2-way communication
- 3.5" transreflective color LCD display
- 30-hour battery life
- Waist belt and shoulder harness attachment points

T150C Hand held 10(20)-Function Radio Remote Control Transmitter
- 10 button/20 function controls
- 3 shift functions for momentary, non-latched and latched controls
- 3 configuration modes to control power up and shut down
- Easily recharges

T150C Portable 14-Function Radio Remote Control
- 14-function Hall Effect trigger for smooth proportional control
- Configurable with momentary or latched switches and a potentiometer
- Uses a unique ID code to ensure that no two systems will conflict on a job site
- Optional tether cable models are available

T300 Portable 31-Function Radio Remote Control
- 31-function
- Lightweight
- Offers 16 proportional functions
- Up to 15 discrete functions using a combination of switch, paddle and/or joystick controls
- Optional tether cable models are available
- Powered by 4 C batteries

T151C Portable 14-Function Radio Remote Control
- 14-function
- Can be configured with 4 to 7 toggle switches, an optional potentiometer control, belt clip backing and magnetic base
- Unique ID codes ensure that no two systems will conflict on a job site
- Powered by 4 AA Alkaline batteries
- Rated to 160 hours of continuous use

Receivers
Our factory configurable receivers are designed to work with OMNEX transmitters to provide complete mobile control solutions that stand up under the most demanding industrial conditions. OMNEX industrially hardened Trusted Wireless FHSS radio technology and impact resistant packaging are your assurance of dependable operation and precise control.

R260 Programmable 20-Function CAN Controller
- Designed with the latest in mobile control network technology
- Robust, license-free, wireless I/O module and valve driver
- 2-way wireless communication
- 20 I/O combinations
- CAN-Bus Network Integration
- IEC 61131-3 compliant PLC programmability

R160 19-Function Remote Control Receiver
- 19 I/O combinations
- E-Stop output for safe emergency shutdown to outputs and external circuits
- Powered from a 12VDC or a 24VDC system
- Capable of operating 2 proportional outputs and up to 17 digital On/Off outputs

R170 CANBus Receiver
- Designed for CANbus protocols
- E-Stop function for safe emergency shutdown to outputs and external circuits
- Compatible with SAE J1939 protocol
- Can be customized to work with other CANbus protocols
- RS232 port for configuration, diagnostics, firmware upgrades and provisions for data logging capabilities
- With 2x CAN, this receiver can act as a CAN bridge

Expansion Modules
Our flexible expansion modules are designed to augment your OMNEX remote control solution with extra digital and/or proportional I/O. Developed to interface with any OMNEX Deutsch enclosure receiver, OMNEX expansion modules offer complete system control and minimal system wiring.

D160 19-Function Expansion Module
- Allows for addition of extra I/O to any OMNEX FHSS Deutsch enclosure remote control system
- Provides 2 additional proportional outputs and up to 17 additional digital On/Off outputs
- Fully customizable to operate momentary, latched, toggled and interlocked functions and provide current, voltage or PWM output signals

D180 14-Proportional Function Expansion Module
- Allows for the addition of extra I/O to any OMNEX FHSS Deutsch enclosure remote control system
- Provides up to 14 additional proportional outputs that can be configured to operate as digital functions
- Fully customizable to operate momentary, latched, toggled and interlocked functions
Wireless Mobile Control Applications for Tough Environments

Our mobile control products are used extensively in mining, construction, agriculture, locomotive and marine markets, in applications that include on-road, off-road and material handling equipment.

Concrete Pumps  Transit Mixers  Truck Mounted Cranes  Bulldozers
Vacuum Trucks  Side Augers  Boom Lifts  Rotary Drills

Wireless Essential to Concrete Pumping Industry

Since the early 1990s, concrete boom pump manufacturers began searching for a solution which eliminated the risk of operator electrocution should a boom come in contact with live power-lines. One such supplier approached OMNEX with a request to develop a radio control system to fully operate a concrete boom pump, with the intention of physically separating operators from booms. At the time, wireless control was a leap ahead, and many individuals had reliability concerns surrounding wireless technology. OMNEX’s strategy to counter this perception was to overbuild the product—including military-grade switches, industrially hardened plastics, and never-fail, FHSS radios. The result is that today, wireless control is considered an essential component in the reliable and safe operation of concrete boom pumps across North America.

OMNEX remote control solutions from Cooper Bussmann are designed and manufactured in-house, support multiple protocols, feature industrially hardened I/O and packaging and can be tailored to meet your OEM needs. Contact us to learn why our solutions are used by major OEM’s to increase safety and efficiency.

OMNEX products are manufactured for rugged reliability over the long term. To achieve this, all aspects of development, from concept to final assembly and test, are tightly controlled and monitored. Controlled processes include surface mount assembly of printed circuit board components, cable and joystick manufacturing, ergonomic packaging customization and final systems tests. Product flexibility, batch size adjustment, quick turnaround of prototypes and custom designs all benefit from OMNEX’s comprehensive manufacturing abilities.

Technical Support
From proof-of-concept trials to production start-ups and maintenance windows, critical circumstances arise at any time. We offer global technical support to ensure your deployment of our technology is successful and timely.

Research
From feasibility studies, engineering site surveys and concept system design to fully integrated commissioning and maintenance. Our project engineers collaborate with you to create effective designs and empower you to remotely manage your operations.

Technical Training
We keep our customers up-to-date with the latest wireless innovations on-line or in person. We share our experience and knowledge-base through on-line modules or tailored training programs to meet your requirements.

Quality Products
Our products comply with country specific regulatory requirements, industry certifications and standards. From the onset of development, layout and bench testing, OMNEX test engineers work with R&D and Manufacturing to ensure long term component and product robustness.
The Cooper Bussmann Wireless Business Unit is headquartered in the San Francisco Bay Area, with offices in North America, Asia, Australia and Europe. For more than 30 years, we have provided complete wireless monitoring and control solutions to the industrial market with our two brands, ELPRO Technologies and OMNEX Control Systems. We are the industry leader in the design and manufacture of industrial wireless products, and offer an extensive product portfolio of wireless transmitters, receivers, gateways, I/O, modems and more. Our wireless monitoring, control and networking solutions are designed to meet the challenges of a broad range of industrial applications.

www.cooperbussmann.com/wireless