

# quickconnect

## EC/LO QC-Quick Connect™ System

- Custom design, operation & layout
- Enclosures easily transferable from locomotive to locomotive
- Synchronized Time Sharing on radio channel
- Pitch & Catch (optional)
- Digital Talkback™
- Railway rated pneumatic components



Safe &  
Reliable

**CATRON**  
*theimeg*™

Industrial Radio Remote Controls

The QC is a standardized interchangeable portable control system designed to interface with locomotives equipped with American Association of Railroads (AAR) standard Multiple Unit (MU) connections. This makes the QC an extremely cost effective solution when the need arises to control more than one locomotive at your operating facility.

The QC Locomotive Radio Remote Control System delivers the Reliability and Safety demanded for operating locomotives in harsh industrial locomotive and railroad environments.

A typical QC comprises: a portable ergonomic radio remote Operator Control Unit (OCU) IP65 watertight enclosure – designed for one hand operation, a portable locomotive mounted IP65 watertight enclosure containing the Locomotive Computer Unit (LCU), and a portable locomotive mounted IP65 watertight enclosure containing an Electro-pneumatic proportional brake interface.

Accessories: harness, batteries, charger, MU cable, hoses.

- Synchronized Time Sharing enables up to 7 systems to operate on one radio frequency
- Simple installation by attaching portable enclosures and plug-in connections for MU sockets
- True two-way digital communication between OCU and LCU through text display and function LED's on the OCU.
- Engine alarm monitoring using single alarm input from MU connector
- Electrically controlled throttle and electrical direction control (reversing) via MU connector
- Proportional, independent braking and train brake functions, independent brake bail
- Numeric display of main reservoir, independent and train brake via Digital Talkback on OCU
- Numeric display of throttle notch via Digital Talkback on OCU
- Visible status text display on LCU
- Sanding function, Wheel Slip Sensing via MU connector
- Horn and Bell function provided on the LCU (option)
- Solid State Proportional/analog and Electromechanical/pneumatic interfacing capabilities
- Extensive EMI/RFI protection
- Complete system diagnostic test on power up
- Operating range of 800 meters nominal, dependent on power, frequency and antenna. Longer operating ranges available on request.
- Operating environments from -20°C to +60°C; RH 0 to 95%, non-condensing.
- Verification of output commands through external monitoring
- High digital message data security with error checking (residual error probability 10<sup>-9</sup>)
- Simultaneous & independent data signal processing of all incoming commands by two separate micro-processors
- OCU "Vigilance" function as standard
- OCU tilt "man down" sensing returns locomotive throttle to idle, disconnects the generator field, and applies emergency brakes



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