



I N D U S T R I A L R A D I O R E M O T E C O N T R O L

CATTRON GROUP INTERNATIONAL®
HAS ASSEMBLED THE MOST
COMPREHENSIVE COLLECTION OF
RADIO REMOTE CONTROL BRANDS
FOR **CRANES, LOCOMOTIVES,
MATERIAL HANDLING EQUIPMENT,
MINING MACHINERY, MOBILE
EQUIPMENT, SHIP LOADERS,
AGRICULTURAL MACHINERY, AND
VIRTUALLY ANY EQUIPMENT WHERE
THE OPERATOR CAN BE MOVED TO A
SAFER, MORE EFFICIENT LOCATION**

REMOTE CONTROL SOLUTIONS FOR INDUSTRIAL APPLICATIONS





Cattron Group International is a leading manufacturer of remote control products and aftermarket services for Industrial, mining, commercial, mobile, railroad and other industrial markets, globally. In addition to its North American operations with two locations in the USA (Sharpville, PA & Escondido, CA), Canada (Toronto, ON. & Montreal, QC), Cattron has operations in Europe (Germany & UK) South Africa (Johannesburg), Brazil (Sao Paulo); supported by an extensive sales and distribution network throughout North and South America, Asia, Africa and Australia.

TESTIMONIALS

"...to our disbelief the box kept on working. We appreciate the quality of your products.."

Steven Teipel
 Manager of Plant
 Operations, Earle M.
 Jorgensen Company

"You have succeeded in providing us with the best possible answer to our problem."

Tony Blaszak
 Boeing, Portland Plant

Through a process of organic growth and acquisitions, The Cattron Group has assembled the most comprehensive collection of Radio remote Control brands. Anywhere the operator of a machine can be moved to a safer, more efficient location, Portable Radio Remote Controls have helped prevent serious injury while increasing efficiency and productivity. The Cattron Group is leading the way with advanced technological innovation, experience and quality backed by an unparalleled worldwide service organization.

Most industrial applications are built around one of our core brands, Cattron®, Remtron® or Theimeg.

The Cattron® brand of engineered products are designed primarily for Electric Overhead cranes, locomotives, material handling equipment, mining machinery, ship loaders, and agricultural machinery.

The Remtron® brand of industrial remote controls is used in both material handling (Electric Overhead cranes) and commercial industries. In addition to industrial Radio Remote controls for overhead cranes, their products are also used for mobile equipment, commercial and construction applications such as concrete pumps, conveyors, winches, booms and others.

The Cattron Group and global affiliates service a customer base of approximately 6,000 companies with over 125,000 installed systems; supported by a network of partners (suppliers, sales, distribution and service representatives) in 34 countries. The Cattron Group has provided remote frequency solutions to industry since 1946.



"Despite being crushed by a forklift, our transmitter kept right on working!"



Photo courtesy of P&H Morris Material Handling.

CRANE CONTROLS

Standard Crane & Hoist Systems



The PATRIOT
Economical, off-the-shelf systems4-5



Remtron Brand OCU (Transmitters)
Customizable to your application 6



Cattron Brand OCU (Transmitters)
Customizable to your application7



Cattron/Remtron Brand MCU (Receivers)
Customizable to your application8

GENERAL INDUSTRIAL CONTROLS

OCU (Transmitters)/MCU (Receivers)
Great for Conveyors, Pumps, Gates, SafeTStop 9



LOCOMOTIVE CONTROLS

MP96 RCL, QC, Accuspeed, and Digital Events Recorder..... 10



OPTIONS AND ACCESSORIES



Vest Harness, Safe-T-Range, Wireless Control Systems
Programmer, Leather Holsters 11



OVERHEAD BRIDGE CR

PATRIOT®

The most affordable, **high quality** remote crane **controls** available from the Remtron® brand. 100% American made and supported, the Patriot® is offered in four models, all of which use Remtron's proven Command Pro® technology. All Patriot systems are shipped ready to install with a six foot long wiring harness and include our exclusive extruded aluminum receiver enclosure. Best of all, the Patriot series transmitters come with a **One Year Unconditional Warranty!**



- ◉ **MADE & SUPPORTED IN THE USA**
- ◉ **IP66/67 OCU (TRANSMITTERS)**
- ◉ **UNCONDITIONAL WARRANTY**
- ◉ **LOW COST OF OWNERSHIP**
- ◉ **SUPERIOR FACTORY SUPPORT**
- ◉ **BUILT-IN 6 FT. WIRE HARNESS**



A N E C O N T R O L S Y S T E M S

25S08A/25S10A

DESIGNED FOR
 3 MOTION/1 SPEED
 2 MOTION/ 2 SPEED



25S11A/25S15A

DESIGNED FOR
 3 MOTION/2 SPEED
 3 MOTION/2 SPEED
 W/ A/B/BOTH



Patriot System Matrix

Control Sceme	Model	OCU (Transmitter)	MCU (Receiver)
3 Motion/ 1 Speed	25S08	25T10A	25R11
2 Motion/ 2 Speed	25S10	25T10A	25R11
3 Motion/ 2 Speed	25S11	25T18A	25R11
3 Motion/ 2 Speed w/ A/B/Both Option	25S15	25T18A	25R11
	A/B Select Relays		3 and 4-wire Hoist Config

OVERHEAD BRIDGE CRANE

“Gorilla Tough” is not just our slogan, it’s our promise!”



21T34A



Built to perform and survive in the tough environments of steel and manufacturing plants, the Remtron® brand flagship Command Pro product line sets the standard for reliability and ruggedness. Yet, inside each transmitter you’ll find a sophisticated electronic system that provides a higher level of responsiveness, versatility and safety.



21T44A



21T54

• Customizable to Any Application

The Command Pro line is available in various models offering different levels of functionality to meet the specific needs of different size facilities and types of applications.

REMTRON BRAND BELLYBOX OPERATOR CONTROL UNIT (OCU) FEATURES

- Low power consumption for long battery life –typically more than 100 hrs. on AA batteries
- Rugged cases hold up to industrial demands
- Easy-to-use “Push-to-Operate” (PTO) bar
- Self-test LED provides transmitter and battery status
- Internal antenna prevents breakage
- Optional UL 913 rating for classified environments



21T74

• 2 Year Unconditional Warranty

REMTRON BRAND HANDHELD OPERATOR CONTROL UNIT (OCU) FEATURES

- Self-test LED provides transmitter and battery status
- Rugged cases are reliable under industrial demands
- Leather Holster for added protection
- Long-life switches with tactile- feedback
- Optional UL 913 rating for classified environments
- IP66/67 rating for water/dust-tight operations [21T10A, 21T14A and 21T18A]



21T23



21T14A



21T10A



21T18A



21T20

SINGLE-STEP MODELS

TWO-STEP MODELS

OPERATOR CONTROL UNITS



PADDLE CONTROL OCU

Designed for durable, reliable and convenient operations, the Cattron® brand T34C and Paddle Controller are designed for indoor/outdoor use. Both the T34C and Paddle Control can be used with most Cattron® brand AT or MP series receiver/decoder units as well as most systems as either a replacement or spare controller. In addition to cranes, the paddle controller can also be used for railroad, military, and other industrial applications.

T34C/PADDLE CONTROL OCU (TRANSMITTER) FEATURES

- For use with most Cattron licensed AT or MP Series System
- Power-on self-diagnostics
- Two stage LED battery indicator with audible beep.
- Long battery life; full voltage regulation over life of the battery
- Rugged, epoxy-coated extruded aluminum case (Paddle control)
- Rubberized metal end caps to absorb heavy shocks (Paddle control)
- Full-length "Push-to-Operate" (PTO) safety bar
- High grade, lightweight aluminum case (T34C)



T34C OCU



The Cattron® brand handheld controllers give operators of heavy equipment the best of both worlds: a small, hand-held, controller with a tough, metal housing. The MKU series and Toggle handheld controllers are ideal when a lightweight handheld control is needed. Ideal for both indoor and outdoor applications, the MKU and Toggle Controller gives the operators a reliable and extremely durable controller.



MKU FEATURES

- Upgraded existing single/dual-pressure keypad controller
- Transkey for added security and safety
- Durable housing made of extruded aluminum
- Rubberized end caps to absorb heavy shocks
- Hoist Selection LEDs
- Combined switch/encoder board increase controller reliability



MKU OCU

TOGGLE FEATURES

- Customized layout with custom-engraved nameplates
- Power-on self-diagnostics
- Two stage LED battery indicator with audible beep
- Long battery life; full voltage regulation over life of the battery
- Epoxy-coated aluminum housing with Lifetime Warranty
- Rubberized end caps & switch guards to absorb heavy shocks
- Large "Push-to-Operate" (PTO) safety bar



TOGGLE OCU

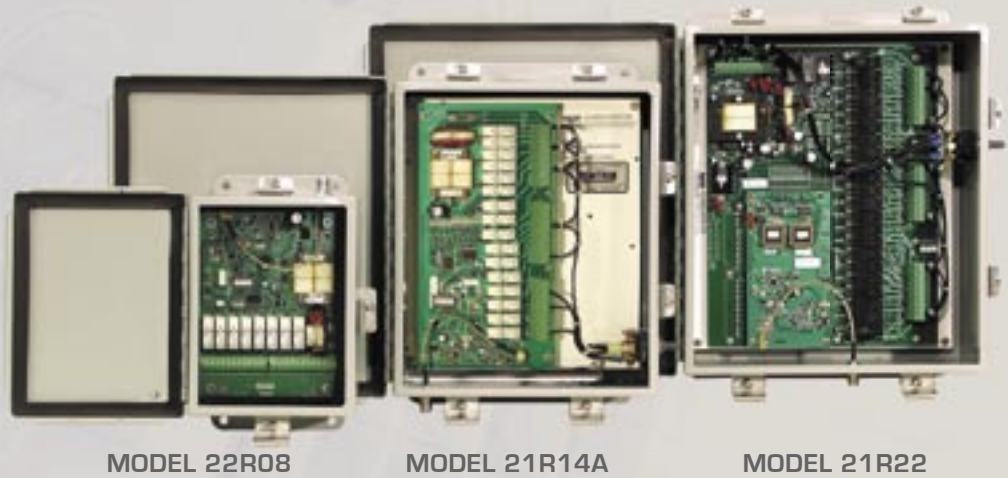


MACHINE CONTROL UNITS (RECEIVERS)

Customizable to Any Application

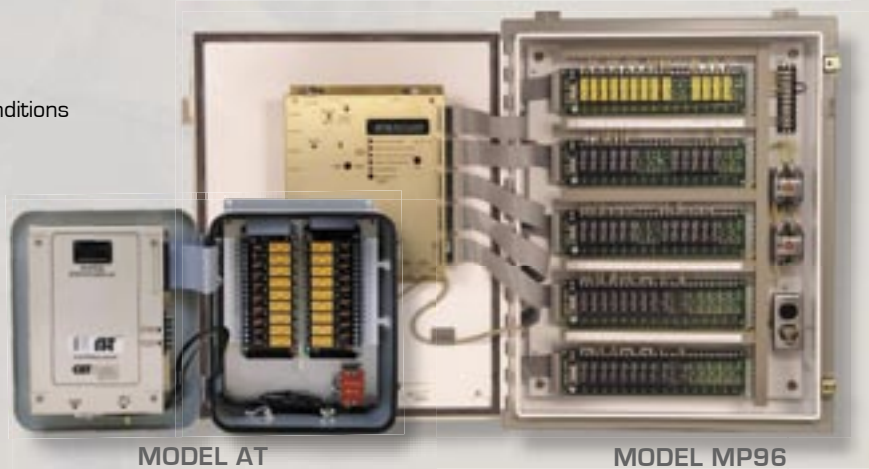
REMTRON BRAND MCU (RECEIVER) FEATURES

- NEMA 4 package, easy to install
- Compatible with CONTACTOR or VFD systems
- Easy "screwdriver" maintenance
- Transfer Switch (excludes RO8)
- FCC/UL 508 Approved
- Receiver remote antenna kit
- First Come-First Serve (FCFS) and Pitch & Catch Control One receiver with up to six Transmitters (P&C R22 and up)
- Optional NEMA 7/8 enclosure for classified environments



CATTRON BRAND MP96/AT MCU (RECEIVER) FEATURES

- Two line backlit system status display showing normal and fault conditions
- Customizable data-log and real time computer monitor capability
- Data collection via remote control or externally monitored system inputs
- Extensive self-diagnostics and diagnostic software for PC available
- Single point status display shows normal and fault condition
- Plug-in micro-controller with e-prom allows quick "personality" changes (reduces need for spare controllers)
- FCC/DOC/EC non-licensed and licensed systems available



GENERAL PURPOSE CONTROLS

Great for Conveyors, Pumps, Gates, Doors, Lights, SafeT Stops

REMOTE SafeTStop

Help increase safety and reduce accidents with the Remtron brand **SafeTStop(STS)**™. By giving the operators/supervisors the ability to be mobile, they are able to control and stop equipment from virtually any location safely. Along with 60 millisecond response time, the operator/supervisor can have direct control over equipment through rocker switches that provide 7 functions in addition to the ON/Alarm and **STS** switch. The Remtron brand **STS** systems are available with optional UL913 certifications and select systems are IP66/67 rated for the harshest conditions. Whether you are moving people or equipment, the Remtron brand **STS** gives you total control in any environment.

Applications SafeTStop has been used in:

- Conveyor Applications
- Assembly Lines
- Amusement Parks
- Entertainment Industry
- Industrial Machinery
- Off Shore Petrochemical



24T09A-1



24T09A-2

◎ Two versions to fit your application & requirements

◎ IP66/67 on select OCUs ensures survival in the harshest environments

◎ Opt. UL913 certification for intrinsic applications/hazardous environments



22T10A



22R08A

The General Purpose Command Pro product line is suited for rugged, industrial applications where a few functions are needed in a heavy duty radio. This product series is microprocessor-based and can be programmed to perform a multitude of tasks involving logic, momentary and latched relay functions.

OCU (TRANSMITTER) FEATURES

- Internal antenna prevents breakage
- Leather holster for added protection
- Test LED provides transmitter and battery status
- Low power consumption for long battery life
- Rugged case made from advanced composites holds up to industrial and commercial demands

MCU (RECEIVER) FEATURES

- NEMA 4 enclosure
- Easy "screwdriver maintenance", no extra test equipment
- Two-piece terminal strip simplifies installation and service
- Status LED indicators provide easy in-field fault isolation and diagnostics
- Choice of 12 VDC, 24 VDC, 120 VAC or 240 VAC power supplies
- Optional UL 913 rating for classified environments

LOCOMOTIVE REMOTE CONTROLS

LRC (Locomotive Remote Controls) systems improve profitability and productivity while adding safety to your locomotive operations. The use of remote controls allow one or more operators to move the train while viewing the operations from the most efficient vantage point.

The Cattron Group continues to be the recognized technology leader in the design and implementation of LRC (Locomotive Remote Control) systems. With more than **60 years** of radio frequency experience and nearly **10,000 LRC installations** worldwide, The Cattron Group is considered the worldwide leader in providing LRC systems.

MP96 RCL

- Standard throttle/brake locomotive system
- Configurable with lightweight grey, toggle or paddle OCU
- Pitch and Catch - safely transfer control between operators
- Range Limiting, Close Start and Digital Talk back functions
- Extensive data-logging with optional external event monitoring
- "Watch-Dog" timers ensure no motion is carried out without an OCU command

QC (Quick Connect)

- Interfaces with locomotives equipped with American Association of Railroads (AAR) standard multiple unit (MU) connections
- Enclosures easily transferable from locomotive to locomotive
- STS™ (Synchronized Time Sharing) with GPS timing
- Available Infrared OCU Identification and Linking
- Pitch & Catch
- Digital Talk back™ with "InfoLink"
- Available PC compatible diagnostic software

ACCUSPEED™ OCU

- Lightweight Ergonomic green OCU
- Synchronized Time Sharing(STS)
 - Up to 10 systems on one frequency
- DigitalTalkback with "InfoLink"
 - Two way digital communication with visual feedback
- Pitch and Catch - safely transfer control between operators
- Electronic Positioning Detection(EPD)
 - Limit operational area of Remote control operations
- Automatically adjusts throttle and train brakes
 - Limit locomotive speed to 1, 4, 7, 10 or 15 MPH



MODEL MP96 RCL



MODEL QC OCU



TOGGLE OCU



ACCUSPEED OCU



QC INSTALLED

Digital Event Recorder

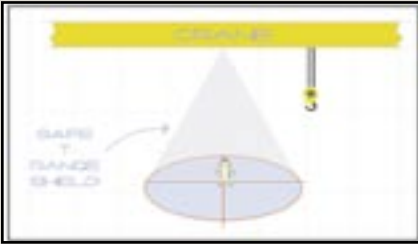
- Used in conjunction with ACCUSPEED or MP 96 RCL locomotive remote control systems (utilizing STS protocol)
- Record and analyze both OCU and locomotive data
- FRA Approved
- Monitor efficiency and re-construct accidents
- Over 200 channels and 96 hours of data collection/storage



ACCESSORIES



Safe-T-Range® keeps the **operator** within a pre-determined distance from the crane, thus increasing **safety** in the work place. Using an advanced spot antenna design along with **programmable** logic, a Safe-T-Range® equipped MCU draws an electronic boundary around the crane. The system then safely stops and inhibits selected functions when the operator steps outside the **boundary**. We do all this without shutting down the main line.



- **Electronic boundary range adjustable from 30' to 200'.**
- **Works with any Remtron® brand 21 series transmitter and available on R22-based receivers.**

Laser Collision Avoidance System

Your overhead equipment is too **valuable** to your **operation** to take chances. LCAS will protect cranes and hoists from contact with other equipment or end stops, both indoors and out. Using Retroreflective Class 1 Laser technology, the LCAS's simple push-button set up permits you to program your system to activate the Alarm output and Stop functions at exactly the distance you require. With a range of 50 meters (164 feet), the LCAS can discriminate distance changes to a resolution of 3 mm (0.12 inches). LCAS protects stationary equipment as well. Its warning Alarm output will be activated if the unit detects a target moving within its set warning distance. That gives your operators time to take corrective action before a costly collision occurs.



ELECTRO-HYDRAULIC BRAKE PACKAGE FOR CRANES



The Two-Step Electro-Hydraulic Brake Package makes converting an Electric Overhead Traveling (EOT) Crane from cab control to radio remote or pendant control easy. The conversion requires changing the operation of the bridge brake from a foot pedal to an electrically operated brake. With

the Two-Step Electro-Hydraulic Brake Package, the existing foot pedal system remains in place, and there is no need to re-size or change the existing manual brake system. This eliminates the chance for error in sizing a totally new brake and potential damage to the mechanical structure of the crane during installation of the new brake.

REMTRON BRAND WIRELESS CONTROL SYSTEMS PROGRAMMER

All Remtron® brand **systems** can be easily **programmed** in the field **without** the necessity of hard-to-use dip switches. Both the operating frequency and the unit address are contained in a simple 6-character ID code.

RAC16A Handheld Programmer

Completely **portable** and small enough to fit in your tool pouch, the RAC16A quickly changes ID codes and some **simple** set-up parameters. It also transfers complete set-up information from a fixed computer site to a receiver. For most applications this is the only **programmer** needed.



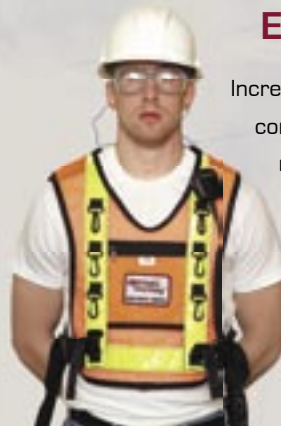
RAC17 PC-based Programmer

Operating under the Windows® environment, the RAC17 provides large facilities a convenient method to **maintain** set-up information on systems under their **control**. Each file contains the equipment type, ID code and set-up parameters. If a spare transmitter or receiver is needed, the file for that particular equipment can be opened and the information simply **downloaded** into a spare unit.

- Reconfigure Command Pro systems in minutes.
- Change ID codes and set-up configurations right in the field.
- Portable and PC-based programmers available.

ERGONOMIC VEST HARNESS

Increase **safety** and **productivity** while providing worker comfort with the Cattron Group International Ergonomic Vest Harness. The Ergonomic Vest Harness offers multiple sizes for optimum fit and a variety of adjustments for optimum weight distribution and worker comfort. It's also rugged enough to stand up to daily use in harsh, industrial environments without sacrificing safety and comfort throughout the worker's shift.



LEATHER HOLSTER

Rugged leather holsters and straps are included as **standard** equipment with all Remtron® brand 21 and 22 Series handheld OCUs. The holsters make it **convenient** to operate the OCU while on your belt. Shoulder straps are included as standard equipment with all Remtron® brand 21 Series level style OCUs.



Distributed By:



**CATTRON GROUP BRAND OF REMOTE CONTROL
SYSTEMS IMPROVE SAFETY, EFFICIENCY
AND PRODUCTIVITY THROUGH:**

- POSITIONING OPERATORS IN THE BEST VISIBLE LOCATION •
- ELIMINATING THE USE OF PENDANT/CAB CONTROLS •
- OPERATOR CONTROL UNITS ARE LIGHTWEIGHT AND ERGONOMIC •
- OPERATE INDOORS/OUTDOORS •



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