Wireless Controls for Cranes and Industrial Applications
At Remtron, “Gorilla Tough” is not just our slogan, it’s our promise!

The Best Value Backed by the Best Warranty!

Our customers rely on our equipment to be simple to use, easy to maintain and trouble free for many years. After all, if our equipment fails, your production stops. When that happens you lose revenue that can easily exceed many times the amount of your wireless control investment. So we designed our equipment to be durable, reliable and easy to maintain and we back it up with best support in the industry.

- **UNCONDITIONAL WARRANTY**
- “Gorilla Tough” Durability
- 24 Hours/7 Days a Week Technical Support

Reliable and Safe

Best Value means reliable and safe service. Remtron equipment is specifically designed to handle critical industrial and construction tasks.

- **900 MHz Reliability**
- Advanced Packet Data Coding for Reliable Communications
- Cyclic Redundancy Code (CRC) for Positive Command Verification
- Control Time Outs to protect against inadvertent commands
- Programmed Fail-Safe Monitors protect against failures of transmission or equipment.

Low Maintenance and Long Life

Best Value also means low cost of ownership and long life. Remtron equipment is designed to reduce maintenance and lower service cost.

- Industry’s longest battery life
  - Over 135 hours of continuous operation
- Standard or rechargeable AA batteries
- 1-2 day service turn around
- Lowest service cost in the industry
- 1,000,000-cycle rocker and rugged case durability
- 15 Year product life support

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

“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 -
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GENERAL INDUSTRIAL CONTROLS

Transmitters/Receivers
Great for Conveyors, Pumps, Gates, E-Stops ........................................ 9

ACCESSORIES

Hydraulic Brake Kit and DC Crane System, Safe-T-Range,
Wireless Control Systems Programmer, Leather Holsters,
and Straps ........................................................................ 10

SPECIFICATIONS

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Remtron presents the Patriot®

The most affordable, high quality wireless crane controls available. 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!

- UNCONDITIONAL WARRANTY
- LOW COST OF OWNERSHIP
- SUPERIOR FACTORY SUPPORT
- BUILT-IN 6 FT. WIRE HARNESS
- 100% MADE & SUPPORTED IN THE USA

MODEL 25S11
DESIGNED FOR
3 MOTION/2 SPEED

MODEL 25S15
DESIGNED FOR
5 MOTION/2 SPEED
**MODEL 25S08**

**DESIGNED FOR**

3 MOTION/1 SPEED

**MODEL 25S10**

**DESIGNED FOR**

2 MOTION/2 SPEED

---

**APPLICATION SYSTEMS**

- **NEMA 4 STEEL ENCLOSURES.**

- **MODEL 1008**

  VERSATILE AND ECONOMICAL CONTROL SOLUTION FOR:
  - 3-MOTION/1-SPEED CRANES
  - 2-SPEED MONORAILS
  - HOISTS

- **MODEL 1814**

  3-MOTION/2-SPEED CRANES:
  - SUPPORTS VFD, PLC CONTACTOR-BASED CONTROLS
  - 2-STEP PUSH BUTTONS
  - A/B/BOTH PUSH BUTTON FOR TROLLEY/HOIST SELECTIONS
  - TRANSFER SWITCH

- **MODEL 2014**

  LARGER TRANSMITTER FOR 3-MOTION/2-SPEED CRANES
  - SUPPORTS VFD, PLC AND CONTACTOR-BASED CONTROLS
  - 2-STEP PUSH BUTTONS
  - A/B/BOTH PUSH BUTTON FOR TROLLEY/HOIST SELECTIONS
  - TRANSFER SWITCH

- **MODEL 2322**

  POWERFUL CRANE CONTROL SYSTEM:
  - UP TO 3-MOTION/5-SPEED CONTROLS
  - 3-MOTION/3-SPEED STEPPED CONTROLS
  - DIRECT SELECTION OF SPEEDS FOR CONTROL
  - A/B/BOTH PUSH BUTTON FOR TROLLEY/HOIST SELECTIONS
  - TRANSFER SWITCH

- **MODEL 25S08**

  DESIGNED FOR 3 MOTION/1 SPEED

- **MODEL 25S10**

  DESIGNED FOR 2 MOTION/2 SPEED

---

**UNCONDITIONAL 2 YEAR WARRANTY**

- **MODEL 1008**

  VERSATILE AND ECONOMICAL CONTROL SOLUTION FOR:
  - 3-MOTION/1-SPEED CRANES
  - 2-SPEED MONORAILS
  - HOISTS

- **MODEL 1814**

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  - A/B/BOTH PUSH BUTTON FOR TROLLEY/HOIST SELECTIONS
  - TRANSFER SWITCH

- **MODEL 2014**

  LARGER TRANSMITTER FOR 3-MOTION/2-SPEED CRANES
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  - DIRECT SELECTION OF SPEEDS FOR CONTROL
  - A/B/BOTH PUSH BUTTON FOR TROLLEY/HOIST SELECTIONS
  - TRANSFER SWITCH
Crane Control

- Customizable to Any Application

BELLYBOX STYLE
TRANSMITTER FEATURES

• LOW POWER CONSUMPTION FOR LONG BATTERY LIFE – UP TO THREE MONTHS 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
• EMBEDDED ANTENNA PREVENTS BREAKAGE
• OPTIONAL UL 913 RATING FOR CLASSIFIED ENVIRONMENTS.
TWO-STEP MODELS

MODEL 21T18

MODEL 21T20

MODEL 21T23

HANDBLED STYLE TRANSMITTER FEATURES

• LOW POWER CONSUMPTION FOR LONG BATTERY LIFE – TYPICALLY ONE TO TWO MONTHS ON AA BATTERIES
• INTERNAL ANTENNA PREVENTS BREAKAGE
• SELF-TEST LED PROVIDES TRANSMITTER AND BATTERY STATUS
• RUGGED CASE, MADE FROM ADVANCED COMPOSITES, HOLDS UP UNDER TOUGH INDUSTRIAL DEMANDS
• INCLUDES LEATHER HOLSTER FOR ADDED PROTECTION
• LONG-LIFE SWITCHES WITH TACTILE-FEEDBACK
• OPTIONAL UL 913 RATING FOR CLASSIFIED ENVIRONMENTS.

SINGLE-STEP MODELS

MODEL 21T14

MODEL 21T10

MODEL 21T14
General Purpose Controls
Great for Conveyors, Pumps, Gates, Doors, Lights, Emergency Stops

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.

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.

RECEIVER FEATURES

• NEMA 4 PACKAGE.
• 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.
• UL 913 RATING FOR CLASSIFIED ENVIRONMENTS.
• WATERPROOF RECEIVER ENCLOSURE

The Remtron Safety Stop Control System is designed to provide the means for an operator to remotely stop electrical equipment in times of Emergency. These Systems are designed for control of industrial machinery and are built to survive the wear and tear of life in factories, mills and foundries. A supplement to the hard wired E-stop on equipment, the Safety Stop Control System is added safety in your workplace.
**Control Receivers**

Customizable to Any Application

**RECEIVER FEATURES**
- NEMA 4 PACKAGE, EASY TO INSTALL
- COMPATIBLE WITH CONTACTOR OR VFD SYSTEMS
- REDUNDANT SAFETY CIRCUITS PREVENT FALSE MOVEMENTS
- EASY “SCREWDRIVER” MAINTENANCE, NO EXTRA TEST EQUIPMENT NEEDED
- TRANSFER SWITCH (EXCLUDES R08)
- UL 508 APPROVED

**RECEIVER OPTIONS**
- FIRST COME-FIRST SERVE (FCFS) AND PITCH & CATCH ALLOW ONE OR MORE RECEIVERS TO BE CONTROLLED BY UP TO SIX TRANSMITTERS (AVAILABLE ON R22 AND UP)
- RECEIVER REMOTE ANTENNA KIT
- OPTIONAL NEMA 7/8 ENCLOSURE FOR USE IN CLASSIFIED ENVIRONMENTS.
**RBK1A BRAKE KIT**

The RBK1A air-over-hydraulic brake kit converts any manually operated cab-type foot brake for overhead bridge cranes to pendant or remote control operation. Designed for years of trouble-free operation, this kit parallels a foot actuated hydraulic brake. Available for all types of cranes, the three-step RBK1A is backed by Remtron’s experience and reliable customer support. Stepless brake kits are also available.

**Safe-T-Range**

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 receiver 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 21 series transmitter and available on R22-based receivers.

**WIRELESS CONTROL SYSTEMS PROGRAMMER**

All Remtron 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 radio remote control systems in minutes.
- Change ID codes and set-up configurations right in the field.
- Portable and PC-based programmers available.

**LEATHER HOLSTER**

Rugged leather holsters and straps are included as standard equipment with all Remtron 21 and 22 Series handheld transmitters. The holsters make it convenient to operate the transmitter while on your belt. Shoulder straps are included as standard equipment with all Remtron 21 Series level style transmitters.
## Specifications

<table>
<thead>
<tr>
<th>Systems</th>
<th>Application Systems</th>
<th>General Purpose</th>
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### Receivers

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## Systems

- 902-928 MHZ, 81 FREQ. (FCC LICENSE-FREE OPERATION)
- 300 FT. RANGE
- 60 MILLISECONDS RESPONSE TIME
- -20° TO 160°F OPERATING TEMP.
- SELF TEST LED INDICATORS
- NEMA 7 & 8 ENCLOSURES AVAILABLE

## Receivers

- 120/240 VAC
- 12/24 VDC OPTIONAL POWER (EXCEPT PATRIOT)
- TUNED ELEMENT ANTENNA W/ TNC CONNECTOR.
At Remtron, “Gorilla Tough” is not just our slogan, it’s our promise!

Background

Remtron was established in 1984 to provide rugged radio controls for the material handling and commercial industries. Our rugged technology is based on merging of our founder’s experience in the design of highly reliable aerospace wireless control systems with research done by Motorola. Remtron acquired Motorola’s design criteria for the safe and reliable wireless control of heavy industrial equipment.

Facility

Engineering, production, customer service and sales are integrated under one roof at our 25,000 square ft. facility in Escondido, CA. Virtually all manufacturing is performed in-house, allowing tight controls on quality and workmanship. Remtron is able to combine standard product production with production of custom or engineered systems to meet our individual customer’s needs. Remtron has delivered over 25,000 wireless control systems to customers around the world.

Service

Our record of repeat customers is the best testimony to our dedication to customer support. Remtron provides continuing support to over 3,000 companies in hundreds of applications throughout many industries. Our support includes a 24/7 technical support line, turnaround repair time of 1-2 days and refurbishment at the lowest rates in the industry. Remtron continues to provide parts and repair services to the equipment we produced 15 years ago. This shows our long-term commitment to our customers and their needs.

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