

CUSTOMER CONNECTED



**CONTROL
CHIEF** 
WIRELESS SOLUTIONS

STANDARD PRODUCTS

Telechief® Series Unlicensed Radio

Hand-held, compact radio remote controls ideal for boat lifts, winches, gates and other applications.

Telechief® Series Technology offers...

- Lightweight, weather-resistant design, IP65 rated
- 40 operating channels with 32-bit security code
- Operating range of up to 330 feet
- Transmitter runs on AA alkaline batteries
- Receiver available in AC or DC
- Pre-wired receiver pigtail
- One year warranty

TM2000

- Four button model

TM4000

- Six button model

TM6000

- Eight button model

TM2200HT

- Two speed
- Red mushroom push-button stop



Summit Series Unlicensed Radio

Hand-held, compact radio remote controls ideal for one or two speed cranes, conveyors and other applications.

Summit Series Technology offers...

- Lightweight, weather-resistant design, IP65 rated
- 70 operating channels with 32-bit security code
- Operating range of up to 1000 feet
- Transmitter runs on AA alkaline batteries
- Receiver available in AC or DC
- Pre-wired receiver pigtail
- One year warranty
- Red mushroom push-button stop
- Remote pairing function
- Manual channel scan
- Power indicator on receiver for troubleshooting ease

SK1400

- Up to four-motion
- Single-speed

SK2400

- Up to four-motion
- Two-speed

SK1500

- Up to six-motion
- Single-speed

SK2500

- Up to six-motion
- Two-speed



CUSTOMER & PRODUCT SERVICE

For more than 3 decades, we have been the leader in the wireless radio remote control industry. Control Chief's success can be attributed to the knowledge and responsiveness of our customer service and product service departments. From the office to the field, these two departments have accumulated more than 250 years of experience. What this means for our customers is prompt, insightful service...

"It takes teamwork to provide the level of support Control Chief is noted for. Every person in our organization is dedicated to providing superior customer support."

-Jack Gee, Product Service Manager at Control Chief, 31 years of service



MATERIAL HANDLING

Advantage Series™ Receiver

Utilizing "PLC on a Chip" technology, the Advantage Series receiver allows for application-specific ladder logic programming. The system is modular in design to provide both analog and digital I/O capabilities and serviceability.

- Radio Configuration: 450-470 MHz FCC Part 90 licensed
- Unlicensed FCC Part 15 radio communication option available
- Power, error/fault and I/O LED diagnostics indication

Ensures a safe, secure communication link

- Integrated watchdog safety circuitry
- Proprietary radio protocol with Cyclical Redundancy Checking (CRC)



Since 1971, Control Chief's products have been time-tested and operator-requested, helping earn our reputation even in the most demanding environments.

Advantage Series™ Transmitters



LJ™

- Total weight (including battery) less than 3.5 lbs. with joystick controls
- Configurable joysticks can either be gated or non gated and provide detents for stepped control



LM™

- Rugged, metal bellybox™ design featuring industrial metal levers
- Available in up to 6-lever configurations



LP™

- Total weight (including battery) less than 3.5 lbs. with paddle controls
- Available in up to 4-paddle configurations
- Stepless feel paddles are individually sealed with neoprene rubber boots

Features common in all Advantage Series™ transmitters

- Ergonomic, completely sealed design
- Lightweight Lithium Ion rechargeable battery for extended life
- Up to 5-speed stepped or stepless motion control
- Operating range of 500-1,000 feet, environment dictated
- High-intensity, 3-digit LED for crane identification and data capabilities
- Customer-specific switch configurations available
- Field-serviceable transmitters utilizing modular plug-in switches

**MADE IN
AMERICA**

SPECIALIZED MATERIAL HANDLING

Raymote® -Infrared Technology

Raymote® Infrared Remote Control Systems offer the ultimate in frequency-free wireless controls. A perfect fit for industrial applications involving overhead cranes, hoists and other equipment where the operator's ability to see and assess the situation is essential. Strategically placed sensors enable safe, restrictive operating range.

Raymote® Infrared Technology offers...

- Line-of-sight safety
- No radio frequency interference
- No FCC licensed required
- No cables to snag on equipment or maintain
- Easy to install and cost-effective to maintain
- Uses affordable, off-the-shelf battery power
- Controllable sensor placement lets you define operational area
- Rugged, high-impact plastic transmitter (Raymote® 2000, 4002 & 6000)
- Rugged, aluminum transmitter (Raymote® 7000 & 8000)
- Multiple system capability (no interference)
- Simultaneous command capability
- Increases operator safety and productivity



Raymote® 2000

- Controls up to eight individual relays

Raymote® 4002

- Designed for operating cranes with three 2-speed motors

Raymote® 6000

- Designed for operating cranes with up to five 2-speed motors

Raymote® 7000

- Designed for operating 5 speed cranes
- Can control up to five 3-speed motors or four 5-speed motors

Raymote® 8000

- For use with 2- or 3-speed cranes
- Can control up to five 2-speed or 3-speed motors
- 5 or 7-position control switches

Rockwell® PLC Based Solutions



Command Chief®

The receiver that raises the level of wireless remote control technology for industrial control systems.

- Receiver based on SLC500™ PLC technology
- This platform can accommodate virtually any I/O requirements
- Quick installation and start-up time
- Reduced maintenance costs

Designed to be used in Rockwell® AB SLC500 PLC's



Communicator®

This advanced transceiver module allows a direct RF communication link through the SLC500™ back-plane to create reliable, cost-effective solutions for applications in motion.

- Each module can handle up to (32) 16 bit words of scanned input/output
- Installation of multiple modules allows you to create a network to match the number of functions required
- Communication range up to several miles, environment dependent
- Unlicensed FCC Part 15 type acceptance



High Current Relay Output Module

The cost-effective choice for applications with medium to high current requirements.

- Eight output bits - one for each relay
- Handles load connections up to 10 amperes per relay contact without the use of intermediate relays
- Input bits provide feedback for continuous monitoring of status of all eight relays



Safety Watchdog Module

For the ultimate in safety, the Safety Watchdog relay module provides a hard-wired interface to MCC circuits.

- Offers real-time control with Safety Emergency Shutdown circuits
- Designed for use with Communicator® module
- Six additional relay outputs available

LOCOMOTIVE REMOTE CONTROL

Train Chief II® Receiver

Rugged, user friendly system for remote control locomotive operations, with an extensive list of optional advanced features. Range capability of up to 2500 feet, environment dependant.

- Safe & reliable
- Microprocessor based PLC platform receiver
- Supports UHF 450-470 MHz Narrow Band licensed and 900 MHz Spread Spectrum unlicensed operation
- Meets or exceeds FRA guidelines (FRA Advisory 2001-01) and AAR Standard S-5507
- Optional speed control and pitch and catch



New MU&Go® plus™ Receiver

Truly transportable, single-cabinet locomotive remote control system for Multiple Unit (MU) equipped locomotives.

- Range up to 3,500 feet, environment dependent
- Provides seamless, quick MU connectivity
- Transportable receiver, less than 85 lbs.
- Trainline and independent brake and bail control
- 10-12 minute setup, four (4) hoses and one (1) MU cable
- NEMA 4 weather proof enclosure
- Infrared security link up
- HMI display (human machine interface) located on the back of the receiver, provides status and diagnostics (see right)
- Lightweight OCU feedback of pressures and alarms



HMI display with diagnostics

Lightweight OCU Transmitters

- Weigh less than 4 lbs.
- Protected internal antenna
- Infrared (IR) registration
- 12 hour Lithium Ion battery

BTRR

- For Brake and Throttle control
- Compatible with Train Chief® II and MU&Go® plus™



BTIND

- For in-plant railroad operation
- Large red mushroom stop button
- Compatible with Train Chief® II & MU&Go® plus™



SCRR

- For Speed control
- Compatible with Train Chief® II



DBT

- For in-plant railroad operation
- Dual Brake & Throttle control on both sides of the transmitter
- Spring return dead man center brake/throttle selector
- Large red mushroom stop button compatible with Train Chief® II & MU&Go® plus™

Train Chief® Transmitter

- Durable, robust metal bellybox™
- One-hand operation (Brake/Throttle)
- Patch antenna (no external antenna required)
- Operating range up to 2,500 feet, environment dependent
- Internal diagnostics
- Vigilance for safety
- Compatible with Train Chief® II



Mercury Transmitter

- Weighs less than five (5) lbs.
- Stainless steel screws with sealing O-rings
- Patch antenna
- Unique toggle operation
- Separate brake/throttle controls
- Operating range up to 2,500 feet, environment dependent
- Compatible with Train Chief® II



ENGINEERED SOLUTIONS

The engineered solutions team provides customized designs for each customer across a wide range of industries and applications. Your needs and requirements are very important to us. So important they have become the basis of our current and future product development. Fostering a close working relationship is paramount to producing not just a good end result but the best possible wireless solution for your particular need.



Customer Challenge

Rugged case design with critical data feedback for a ship loading application.

Customized Solution

Custom aluminum case designed with two-way link and data display.



Customer Challenge

Original transmitter ergonomically challenged by weight and size. Needed something lightweight.

Customized Solution

A customized engineered plastic case with joysticks and data display.



Customer Challenge

A major safety concern when an operator's cab was destroyed during operation. Replace operator cab controls.

Customized Solution

Removed operator from cab with a mobile, wireless cab control HMI with the exact layout the operator was accustomed to.



TO YOU...

"Our Customer Connected philosophy reflects our passion for building strong and trusting relationships with our customers. Providing a high level of service demonstrates we understand what is important to you, our customer. This understanding involves integrity, attention to detail and pride in ownership. Our focus is being connected and caring about the most critical component of our success... our customer." -Douglas Bell, CEO

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