

CS

Industrial Radio
Remote Control
From Cattron-Theimeg, Inc.



CS System Provides Reliable, Safe and Efficient Remote Control

The Cattron-Theimeg CS (Crane Specific) system provides industry with a high performance, low-cost digital Portable Radio Remote Control (PRRC) alternative. The CS system is a low-cost product that is easy to install and maintain. Designed to be ready for use right "off-the-shelf", the CS is perfect for overhead cranes and other types of machinery with reversing motors. It does not require an operating license and can be easily installed and ready for use at the job site in a relatively short period of time.

The CS System offers the end user up to 65,000 different addresses; thus, the chance for duplicate operating addresses is minimal to none. In addition, the CS offers "Output Relay Interlocking." This feature insures that the directional relays are interlocked to allow only one closure at a time, e.g., Forward or Reverse. The CS System is comprised of two primary components: a receiver/decoder with relay interface and a choice of either Cattron-Theimeg's MK or PS controller / transmitters. **(See Controller Page for complete information on the MK and PS controllers).**

The receiver/decoder and output relays are all laid out on a single circuit board housed within a compact, NEMA 12, IP65 steel enclosure. The single board design provides a simple way to change all of the electronics should a repair be required. The decoder makes extensive use of the microcomputer's self-diagnostic capabilities by using a two character display to show system status. The output relays are rated for heavy industrial loads, both resistive and inductive. A secondary contact on each directional relay is used by the decoder to sense and verify each of the radio transmitter commands. Should a fault condition be detected in the directional relays, the OPR and all motion outputs will be disabled. Automatic Safety Override (ASO) is a safety feature in most Cattron-Theimeg systems.

- Low cost, simple to install – no operating license required
- 2, 3, and 4 reversing motor control
- Multiple, user-selectable RF frequencies (synthesized radio technology)
- Up to 65,000 operating addresses
- Output directional relay interlocking
- High message security using digital FM radio
- Power-on self-diagnostics to protect against lost or interfering signals
- Multiple watchdog timers and Automatic Safety Override(ASO)
Output verification on directional relays

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CS Technical Specifications

Relay Contact Rating: 5A @30 VDC or 250 VAC, resistive

Output Relay Interlocking: Directional relays are interlocked to allow only one closure at a time, e.g., Forward or Reverse

Output termination: European "Plug-in" style

Number of outputs: 4, 8, 12, or 16 electromechanical (ON/OFF functions plus 1 output for OPR mainline)

Enclosure Dimensions and Rating: 10" x 8" x 4" (254mm x 203mm x 102mm); NEMA 12, IP65

Control Voltage Range: 30 VDC or 120 – 250 VAC +/- 20%, fused @ 15Amps

Power Requirements: 13.8 VDC nominal; 110 VAC supply standard

Diagnostics: Power on self diagnostics and a 2 character display to report status; individual LEDs for each output relay

Receiver frequency: synthesized, 128 channel (selected via rotary and SIP switch); 447 – 473 MHz band

Address Codes: 65,000; factory selection, sequential to build

Sensitivity: 0.7uV (20db quieting)

Frequency Stability: +/- 0.0005% of reference frequency

* Specifications are subject to change or revision without notice. Consult the factory for verification.

Available Models: Equipped with:

CS4	2 motors, single speed + OPR
CS8	3 motors, single speed + 2 aux. functions + OPR
CS12	4 motors, single speed + 4 aux. functions + OPR
CS12+2	3 motors, two speed + 3 aux. functions + OPR
CS16-4	4 motors, two speed + 3 aux. functions + OPR
CS6DP	2 motors, two speed + OPR
CS12DP	4 motors, two speed + OPR
CS16DP	4 motors, two speed + 4 aux. functions + OPR

NOTE: OPR connects to the mainline contactor.

** CS Systems are NOT compatible with other Cattron-Theimeg systems.



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Worldwide Experience

Worldwide Quality

Worldwide Service