

# CATTRON™

## Paddle and Joystick Controllers



Equipment operators agree that the Cattron Paddle and Joystick Controllers are perfect for heavy industrial applications. Designed with both operators and maintenance personnel in mind, these heavy-duty controllers are ideal for indoor and outdoor use. They are very easy to use, as most of the controls have been modeled after those commonly found in crane cabs.

In addition to cranes, these controllers can also be used for railroad, military and many other applications.

They can be used with Cattron™ AT or MP series receiver/decoder units.

### DURABLE CONSTRUCTION

These controllers incorporate industrial grade mil-spec components and sophisticated operating firmware. All components are protected by a thick-walled, epoxy-coated extruded aluminum case. The ends of the housing are rubberized metal plates that make tough absorbing end bumpers.

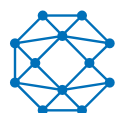
The base unit has room for up to six paddles, or two joysticks and can be customized with additional push-buttons and toggle switches, larger versions with more paddles and joysticks are possible. In addition, all functions are identified by durable, custom-engraved nameplates. Controllers have been field proven under extreme conditions. Total water and dust sealing makes them suitable for indoor and outdoor applications.

### POWER SOURCE

Powered by convenient long life disposable alkaline or rechargeable Ni-Cad batteries. In normal operation, a green LED blinks with each function command message. For added safety and improved performance, the operating voltage is regulated over the entire battery life, insuring constant range and reliable operation. Whether you choose disposable or rechargeable batteries, changing the battery is easy - simply open the gasketed battery cover, drop the battery in place and close the cover. There are no wires or connectors to insert into the battery.

### FEATURES

- Use with any Cattron™ AT or MP Series Machine Control Unit
- Customized layout with custom-engraved nameplates
- Rugged design for use in harsh environments
- Rubberized end caps to absorb heavy shocks
- Push to Operate (PTO) safety bar
- Two-stage LED battery indicator with audible beep
- Power-on self-diagnostics
- Long battery life
- Designed for ease of service





# Paddle & Joystick Controller

## OPERATION /SAFETY

When the operator first turns the power switch on, a sophisticated self-test routine monitors the motor function switches to detect a broken wire or a defective switch. All motor function lever switches are tested for neutrality and a small speaker beeps when the test is complete. If a motor function switch failure occurs, it is recognized as a problem and locked out from any further input. A special message is sent to the receiver/decoder to advise maintenance personnel of the problem. The message is both displayed and stored in the data log of the controller's decoder.

A full-length safety bar is provided to function as an enabling device to all lever switches. The bar is easily and naturally activated by the palm of the operator's hand when placed into position to move the control switches.

This push-to-operate (PTO) safety bar will electronically disconnect all lever switches when it is released, thus stopping motion commands from these switches. This feature is programmable. Certain applications may have some lever switches removed from the control of the PTO bar. Paddle controllers are equipped with a tilt switch to activate diagnostics and can be optionally programmed to send a function. This function can be assigned in the decoder for a variety of operations, i.e., to stop the equipment, sound an alarm or both. Every paddle controller may also be equipped with an optional PC-compatible diagnostic port.

## SPECIFICATIONS

Case Material	Epoxy- coated aluminum extrusion with molded rubber end caps
Weight	6.0 lbs (2.72 kg); Standard three paddle unit
Dimensions	Approx. 5.9" H x 9.5" W x 6.7" D (15cm x 24cm x 17 cm); Standard three paddle or two joystick unit
Environmental	-22° F to +140° F (-30° C to +60° C), Indoor/outdoor use; contact for extremes
Switch Types	Spring return to center
Switch Options	Wide Variety - Paddles (single axis), joysticks (dual axis), toggle switches, and push buttons
Number of Functions	Up to six motions, single or dual axis; Up to 15 on/off functions
Keylock Switch	Optional (Power ON/OFF)
Tilt Switch	60° front/back, 45° side/side activation
Antenna	Internal or external
Aux Functions	Up to 15 digital ON/OFF
Push to Operate (PTO) bar	Standard
Battery Voltage	12.5 VDC nominal
Radio Transmitters	UHF, synthesized
Approvals	USA, Canada, South Africa, Brazil; Contact for complete listing
RF Power Output	Variable - dependant upon application requirements and licensing limitations
Emission/Modulation	9KOF1D +/-2.5 KHz deviation (narrowband)
RF Operating Range	Greater than 300 ft. (93 m) to 1650 ft. (500 m) line of sight
Continuous Battery	Alkaline; NiMh - Battery life dependant upon application
Carrying Case	Optional ergonomic vest harness

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