



PADDLE CONTROLLER

Durability and Control for Industrial Applications

Equipment operators agree that the Cattron® brand paddle-type controller is perfect for heavy industrial applications. Designed with both operators and maintenance personnel in mind, the heavy-duty controller is ideal for indoor and outdoor use. It is very easy to use, as most of the controls have been modeled after those commonly found in crane cabs. In addition to cranes, the paddle controller can also be used for railroad, military and other industrial applications.

The Paddle controller uses advanced microcomputer electronics and surface-mount technology. It can be used with all Cattron® brand AT or MP series receiver/decoder units and can be utilized with existing systems as either a replacement or spare controller.

Durable Construction

The Paddle controller consists of an encoder circuit board that uses industrial grade mil-spec digital components, a powerful microcomputer and a sophisticated operating software code. All components are protected by a thick-walled, epoxy-coated extruded aluminum case. The ends of the housing are rubberized metal plated that make absorbing end "bumpers."

Standard paddle controllers have room for up to six paddles, and can be customized with additional push-buttons and toggle switches. In addition, all functions are identified by durable, custom-engraved nameplates. Paddle controllers are field tested and have been proven under extreme conditions. Total water and dust sealing makes them suitable for indoor and outdoor applications.

Power Source

Cattron Paddle controllers are powered with 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® brand AT or MP Series System
- 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



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 datalog of the controller's decoder.

A full length safety bar is provided to function as an enabling device to all lever switches. It is a large full length switch that is easily and naturally activated by the palm of the operator's hand any time he places his hand into position to move the lever 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. Cattron 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.

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)
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
Additional Functions:	Contact factory or sales representative for details.
Aux Functions:	Up to 15 digital ON/OFF
Push to Operate(PTO) bar:	Standard
Battery Voltage:	12.5 VDC nominal
Radio Transmitters:	UHF, pulsed packet data
Approvals:	USA, Canada, UK, South Africa, Brazil; Contact for complete listing
Power Output:	Variable - dependant upon application requirements and licensing limitations
Emission/Modulation:	14KOF1D +/-5 KHz deviation; 9KOF1D +/-2.5 KHz deviation (narrowband)
RF Operating Range:	Greater than 300 ft. (93m) to 1650 ft. (500 m) line of sight
Continuous Battery:	Alkaline; NiMh - Battery life dependant upon application
Carrying Case:	Optional ergonomic vest harness



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



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