

Joystick Controller

Industrial Radio
Remote Control
From Cattron-Theimeg, Inc.



Joystick Controllers

Cattron-Theimeg JS (Joystick) Controllers are perfect for heavy industrial applications. Designed with the operator in mind, these heavy-duty controllers are ideal for indoor and outdoor use. JS controllers can be used in a wide variety of industrial environments, such as mining, rail operations, and steel fabrication.

Cattron-Theimeg's Joystick controllers employ advanced microcomputer electronics and utilize surface mount technology. They can be used with all Cattron-Theimeg AT Series or MP Series receiver/ decoder units. JS controllers will operate with existing systems as either replacements or as spare controllers. A variety of synthesized and crystal-controlled RF transmitter configurations can be provided with these controllers, allowing for operation in the VHF and UHF licensed and non-licensed radio channels.



Key Features

- For use with any Cattron-Theimeg AT or MP Series Portable Radio Remote Control System
- Joysticks available as stepped or stepless (proportional)
- Also available with notched joysticks
- Customized layout with custom-engraved faceplates
- Rugged, ergonomically designed aluminum housing protects electronic circuits
- Suitable for indoor and outdoor applications
- Power-on self-diagnostics
- Two stage battery indicator: "green" shows battery normal; "red" shows battery low (along with low battery "beep")
- Long battery life (Alkaline, NiCad); Full voltage regulation over life of the battery
- State-of-the-art industrial grade components and advanced microcomputer technology
- Urethane end caps & switch guards absorb heavy shocks
- Standard Push-to-start vigilance button
- Optional Full-length Push-to-Operate (PTO) safety bar
- Optional TALKBACK™ and digital display available
- Designed for easy servicing

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Joystick Controller Product Features

Durable Construction

Cattron-Theimeg's JS controllers have highly advanced encoder circuit boards which are built using industrial grade components, powerful microcomputers, and sophisticated operating software. These controllers are high quality units, both inside and out. The housing that surrounds and protects the electronic circuitry is made of thick-walled extruded aluminum, which has a hard, epoxy-coated exterior. The ends of the housing are urethane-coated plates that make shock absorbing end "bumpers" and switch guards. Only the highest quality joysticks, buttons, and switches are used. Their reliability and construction have been field-tested and proven under extreme conditions. Total water and dust sealing makes them suitable for indoor and outdoor operation.

Joystick Operation

When the operator first turns the power switch on, a sophisticated Power-On-Self-Test (POST) routine analyzes all critical switch inputs to detect unwanted commands in the system. The speaker will beep, and the green light will flash, indicating the test is complete and all is okay.

JS controllers have room for a variety of control switch combinations, including joysticks, toggle switches and/or pushbuttons. Functions are custom engineered to suit end-user preferences. Stepped and stepless (proportional) joysticks are available. All switches are arranged according to the user's requirements and identified by durable, custom-engraved faceplates.

Cattron-Theimeg joystick controllers are equipped with tilt switches. These switches are used to activate diagnostics and can be optionally programmed to send functions. These functions can be assigned in the decoder for a variety of operations, e.g., to stop the equipment, sound an alarm, broadcast a "Man Down" alarm or all.

Power Source

Cattron-Theimeg JS 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. When the battery voltage becomes low, the green LED will change to red, and a beeping sound will alert the operator that the battery needs to be changed or recharged.

Joystick Controller Specifications

Case Material: Anodized aluminum extrusion with molded urethane end caps

Dimensions: Approx. 5.9" x 9.5" x 6.7" (15 cm x 24 cm x 17 cm) measurement includes joystick

Weight: Approx. 6 lbs. (2.72 kg)

Number of Functions: 1 to 3 single or dual axis joysticks plus multiple on/off switches

Keylock Switch: Optional (power on/off)

Antenna: Internal standard or external optional

Environmental: -22°F to +140°F (-30°C to +60°C), indoor/ outdoor use; contact Cattron-Theimeg for extreme needs

Battery Voltage: 12.5VDC nominal

Radio Transmitters: Licensed and non-licensed UHF & VHF, FM Pulsed Packet Data

Power Output: Variable - dependent upon application requirements and licensing regulations

RF Frequency: UHF, 16 frequency synthesized

Emission/Modulation: FM/14KOF1D + 5kHz for 100%

Operating Range: From approximately 300ft (93m) to 1650ft (500m). These distances assume line of sight operation and are dependent on power, frequency, antenna, and type of receiver/decoder used.

Battery Selection: Long-life Alkaline or Rechargeable Ni-Cad. Battery life dependent upon application. Contact factory for more information.

Carrying Harness: Optional shoulder straps, holster-style belts, swivel belt clips or Ergonomic Vest Harness.

3JS Controller

The 3JS controller offers the same basic specifications and capabilities as the standard type joystick controller with the added ability to accommodate three joysticks within a lightweight, ergonomic, durable European-style plastic enclosure. The 3JS controller can be configured in a variety of ways to meet the user's individual requirements. Check with the factory for complete details and specifications.



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

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