

Cattron™

AT



HIGHLIGHTS

The AT Series offers the safety and dependability required for operating machinery in harsh, industrial environments. AT Series Systems can be installed on overhead cranes, furnace doors, conveyors, shiploading equipment, mining machinery, agricultural equipment and much more. All AT Series Machine Control Units (MCU) are custom engineered to meet individual application needs, and can be engineered for up to 32 outputs and/or stepless, within two enclosure styles.

MCU

AT MCUs are high quality, industrial units which are housed in compact NEMA 12 (IP 65) enclosures. The AT electronics portion of the MCU is protected with an EMI/RFI shielded sub-chassis (gold box) ensuring reliable operation in harsh industrial environments. This compartmentalized chassis contains the power supply, the RF receiver, and the microprocessor-based decoder.

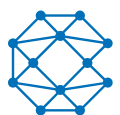
AT Series systems are available with options such as Close Start™, Range Limiting™, and Multi-Frequency operation.

AT MCU's incorporate extensive self-diagnostics including A.S.O relay contact monitoring on all relays which performs on a continuous basis to insure safe operation. A two character display shows status conditions. Long-life electromechanical relays are organized for easy function recognition. All relays plug into sockets with mechanical hold-down screws and snubber circuits are provided for inductive loads. LED's located beside each relay show, at a glance, when it is energized, making diagnostics a breeze.

Our application engineers ensure that all AT MCUs are programmed for the specific application using complex sequential logic, function timing, interlock, etc. often eliminating the need for a second interface, such as a PLC. The AT can be adapted to a wide variety of equipment. AT systems will also work with MK, Paddle and Toggle OCU's.

FEATURES

- 1-32 relay outputs + ON/OFF (mainline)
- Extensive self-diagnostics
- Status display shows normal and fault condition
- "Dry" relay contact outputs which allow mixed control voltages
- Automatic safety override (ASO) output relay verification
- Custom factory engineering for each application
- Simplified installation with complete custom wiring diagrams
- Multiple "watch dog" timers provide redundancy to insure that no motion is carried out without command (total of five – two hardware, three software for CPU, Mainline, & Motor Functions)
- Compact enclosure
- EMI/RFI shielded/compartmentalized sub-chassis
- Plug-in micro-controller with e-prom allows quick "personality" changes
- Multiple power supply options
- FCC/I.C non-licensed and licensed systems available
- Long "ride thru" time during power interruptions to the receiver/decoder
- Diagnostic software for PC available
- Stepless output available
- Can be configured with MK, Paddle and Toggle OCU's





TECHNICAL DATA AND SPECIFICATIONS

Interface Type	Mechanical relays normally open contacts of 8 A @ 250 VAC or 5 A @ 30 VDC. (Outputs fused at 5 Amps; normally closed contacts optional)
Output Termination	Two screw terminals per relay contact allowing for mixed control voltages and transformer (two 14 AWG per terminal)
Number of outputs	1-32 independent and/or simultaneous, plus mainline on/off (operate)
Enclosure	NEMA 12 (IP65) standard – dust, water and oil tight; NEMA 4 and 4X (IP66) optional
Dimensions	AT-16: 12"H x 10"W x 4.5"D (305 mm x 254 mm x 115 mm) AT-32: 14"H x 12"W x 6"D (375 mm x 330 mm x 165 mm)
Control Voltage Range	30 VDC or 12-250 VAC fused @ 5Amps (higher voltages with derated current); Stepless: 0-80V Bipolar maximum
Power Requirements	32/48/110/220VAC 50-60 Hz or 12 VDC +/- 20% @ less than 1 Amp; optional 12 to 48 VDC power regulators available
Receiver	(Synthesized): 403 – 424 MHz or 447 – 471 MHz
Environmental	-4°F to +140°F (-20°C to +60°C), RH 0 to 95%, non-condensing (special units available)
Optional diagnostic Port	RS232C (DB25 Connector) or RS422 (MTA Connector)
RF Range	300 ft. nominal (92 m) (no license required); 800+ ft. (246+ m) dependent on local conditions



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