

ATC eX NEMA Controllers

TS 2 Type 1
TS 2 Type 2



TS 2 Type 1



TS 2 Type 2

Cabinets
Controllers
Signals
Signs
Software
Specialty

Overview

McCain's ATC eX NEMA controller is an advanced, multi-application controller that simultaneously supports multiple software applications through a single platform. Designed from the ground-up based on NEMA TS 2 and ATC 5.2b standards, the ATC eX NEMA controller provides revolutionary flexibility and control. Best of all, the single ATC eX compliant housing can be configured for either TS 2 Type 1 or TS 2 Type 2 applications and is backward compatible with TS 1. This allows end users to upgrade existing intersections to a modern, high-performance platform without replacing cabinet hardware.

Benefits

- Compliant with NEMA and ATC standards
- Powerful CPU and generous memory configurations
- Multi-tasking ability minimizes the amount of hardware required at intersections
- Robust, open-architecture Linux platform supports application software from multiple vendors
- Wide variety of communication options for connectivity in any environment
- Multiple configuration options include NEMA TS 1, TS 2 Type 1, and TS 2 Type 2

Product Description

The McCain ATC eX NEMA controller is a revolutionary, multi-application controller, compliant with the latest NEMA and ATC standards.

The ATC eX NEMA controller features a wide variety of communications options, including a standard 3-port hardened switch, four USB ports, serial, and Ethernet for secure connectivity in any kind of environment. Quick data transfers, firmware upgrades, and log retrievals can be done via USB.

Each controller is built to McCain's stringent, high-quality manufacturing standards, ensuring long-lasting performance in all environments.

The controller's Linux operating system provides a robust, flexible, open-architecture platform that can support application software from multiple vendors.

Hardware Features

Operating system

- Linux

Microprocessor

- Freescale PowerQUICC II Pro microprocessor

Memory

- 16MB Flash memory
- 128MB DDR RAM (expandable)
- 2MB Non-volatile SRAM

Backup Real-Time Clock (RTC)

Applicable standards

- NEMA TS 2-2003 v2.06
- ATC 5.2b
- All applicable NTCIP base standards

Controller Interfaces

Communication interfaces

- SDLC ports (2) including SP3 routed to NEMA TS 2 Port 1
- Serial (asynchronous) on front panel (3)
- Serial (asynchronous) on 2070 compatible modem slot (2)
- ENET 1: 100 Base-T Ethernet switch, 1 uplink, and 3 additional ports
- ENET 2: 100 Base-T Ethernet port dedicated for local communications (i.e. laptop or similar)
- USB ports (4)

Front panel interface

- Display: 16 lines x 40 characters
- Keyboard: 7 x 4 keypad (28 key)

Cabinet interfaces

- NEMA TS 2 Type 1 Port 1 (SDLC)
- NEMA TS 2 Type 1 A connector
- NEMA TS 2 Type 2 A, B, C and D connectors

General Specifications

Style:	TS 2 Type 1, TS 2 Type 2
Dimensions:	TS 2 Type 1: 7" H x 10" W x 10.5" D TS 2 Type 2: 10" H x 10" W x 10.5" D (rounded to the nearest 0.1")
Form Factor:	Shelf mount configuration
Power:	89 VAC to 135 VAC, 60 Hz (± 3 Hz)
Environment:	Operating Temperature: -37°C to +74°C Humidity: 0 to 95% (non-condensing)
Weight:	TS 2 Type 1: 7 lbs TS 2 Type 2: 10 lbs

Options

- 256MB DDR memory expansion
- Optional modules
 - Various communication modules (2070 form factor)
 - GPS module
- Custom D connectors
- International Input Voltage: 190VAC to 253VAC, 50 Hz (± 3 Hz)

To learn more about
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