Local Controller Hardware

Siemens m50 Series Traffic Controller

Siemens controller line for use in NEMA style cabinets

All

NEMA

Description

The Siemens m50 series controllers are an innovative, fully actuated controller unit with an extensive compliment of operational, programming, and diagnostic capabilities. The m50 series exceeds many industry standards and specifications with advanced functionality beyond the normal NEMA standards. The m50 features new capabilities and enhancements in hardware design and communications. The series consists of the m51 TS2 Type 1, m52 TS2 Type 1,2 and the m53 TS2 Type 2 models.

Benefits

- Multiple communication interface options
- Backward compatible to supports a variety of cabinet styles including the NEMA TS1, TS2 Type 1, and TS2 Type 2
- Eliminates need for EPROM chip replacement
- Ability to reduce costs by using single front panel for multiple controllers
- Simple and proven closed-loop solution

Features

- Built in external 10 Base-T Ethernet port with configurable IP
- 8MB of flash memory
- NEMA TS2 Type 1 15-pin Input/Output serial connection to the bus interface unit
- NEMA TS2 Type 2 for direct parallel connection to load switches and detectors
- Removable hand held front panel with 8x40 character backlit LCD display

Making motion manageable

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Controllers by Siemens

Central Processor Unit (CPU)

- Open architecture platform with standard OS9™ operating system
- Motorola 68360 32 bit, 25MHz processor with CPA32 instruction set
- TOD Clock with automatic daylight savings time adjustment
- Power supply will power the SRAM during power failures

Keyboard and Display

- Removable light-emitting diode backlit LCD Display with 8 lines of 40 characters with adjustable contrast setting.
- Emulation of terminal per Joint NEMA/AASHTO/ITE Standard.
- Key quantity and function per Joint NEMA/AASHTO/ITE Standard.

Communications

- 10 Base-T Ethernet with front panel RJ-45 connector
- Unique MAC address assigned by the Institute of Electrical and Electronic Engineers (IEEE)
- EIA-232 port for uploading/downloading applications software and OS updating
- Single and multi-mode fiber optic options
- 1200 bps Frequency Shift Keying (FSK) modem (optional)

Controller Housing

- Seven (7) expansion slots with card guides for standard size Versa Modules and two (2) slots with card guides for standard Joint NEMA/AASHTO.ITE ATC modems (optional)
- Polycarbonate construction (excluding back panel), rear mounting tabs and aluminum power supply mounting plate for electrical grounding
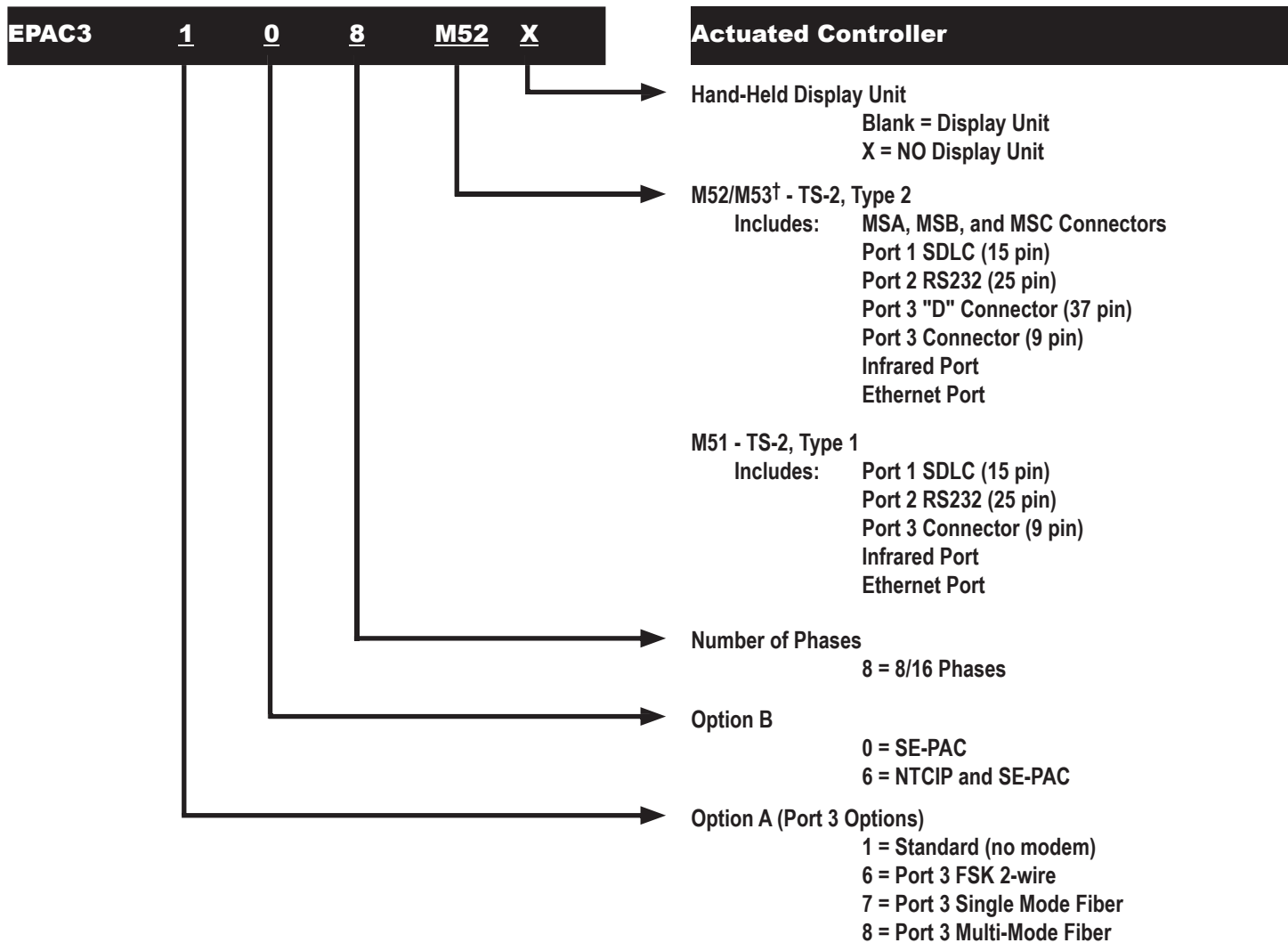- Carrying Handle

All of Siemens controllers and accessories are built with the highest standards in quality and manufacturing. With a long standing history of technological innovations, well renowned customer service, and high quality products and services, Siemens is the leader in traffic technology products and solutions. For more information on our product line see our website at www.itssiemens.com.

| EPAC3 | 1 | 0 | 8 | M52 | X | **Actuated Controller** |

Hand-Held Display Unit
>   Blank = Display Unit
>   X = NO Display Unit

M52/M53† - TS-2, Type 2
>   Includes: MSA, MSB, and MSC Connectors
>   Port 1 SDLC (15 pin)
>   Port 2 RS232 (25 pin)
>   Port 3 "D" Connector (37 pin)
>   Port 3 Connector (9 pin)
>   Infrared Port
>   Ethernet Port

M51 - TS-2, Type 1
>   Includes: Port 1 SDLC (15 pin)
>   Port 2 RS232 (25 pin)
>   Port 3 Connector (9 pin)
>   Infrared Port
>   Ethernet Port

Number of Phases
>   8 = 8/16 Phases

Option B
>   0 = SE-PAC
>   6 = NTCIP and SE-PAC

Option A (Port 3 Options)
>   1 = Standard (no modem)
>   6 = Port 3 FSK 2-wire
>   7 = Port 3 Single Mode Fiber
>   8 = Port 3 Multi-Mode Fiber

†*M53 same as M52, with reverse order MSC, MSB, and MSA connectors.*

For Datakey™ and/or additional Port 3 Options, add one of the following part numbers (use 1 for Option A):

Part Number	Description	Part Number	Description
AAD15288P001	Datakey*, Port 3 RS-232	AAD15288P007	Datakey*, Port 3 RS-232, Single Mode Fiber
AAD15288P002	Datakey*	AAD15288P008	Datakey*, Port 3 Single Mode Fiber
AAD15288P003	Port 3 RS-232	AAD15288P009	Port 3 RS-232, Single Mode Fiber
AAD15288P004	Datakey*, Port 3 RS-232, FSK	AAD15288P010	Datakey*, Port 3 RS-232, Multi-Mode Fiber
AAD15288P005	Datakey*, Port 3 FSK	AAD15288P011	Datakey*, Port 3 Multi-Mode Fiber
AAD15288P006	Port 3 RS-232, FSK	AAD15288P012	Port 3 RS-232, Multi-Mode Fiber

* Datakey™ reader ONLY. Datakeys must be purchased separately.

Hand-held display can be ordered as a separate item (*AAD14767P001*). Unit can also be ordered with *NextPhase* firmware (*MBU13995P100*). Please contact your local area distributor to order SCOOT enabled controllers.

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