



MPX CONTROLLER

The Next Generation of Intelligent Power Control

Voltage and Current Control Levels (0-450V L-N, 0-779V L-L, or 0-50,000A)

Building upon the proven foundation of the MP11, the **Staco MPX Controller** represents the next generation of intelligent, connected voltage and current control. The MPX combines precision analog regulation with advanced digital management, featuring touchscreen operation, Ethernet connectivity, and expanded automation capabilities.

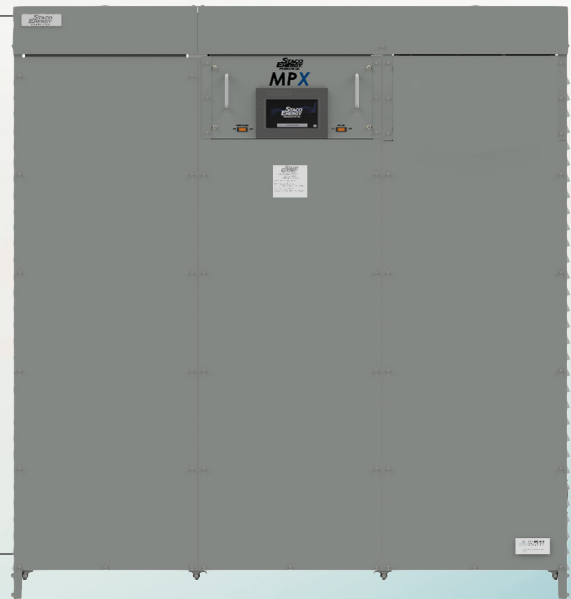
Designed for today's industrial, R&D, and manufacturing environments, the MPX provides real-time visibility, multi-channel coordination, and seamless integration into modern control systems. Its intuitive interface and modular design simplify setup, streamline testing, and enhance process reliability.

APPLICATIONS INCLUDE

- Industrial and manufacturing test systems requiring precision voltage regulation.
- HVAC, motor, and equipment testing environments
- Research and development laboratories needing programmable control.
- Automated process control and simulation platforms.
- Systems requiring remote access, data acquisition, and performance tracking.

PRODUCT FEATURES

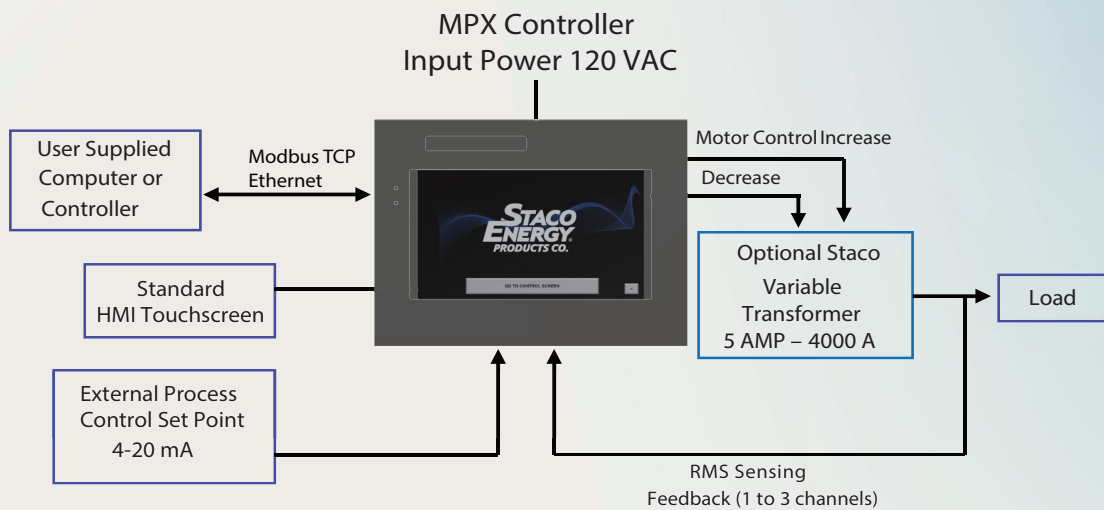
- Full-color touchscreen HMI for intuitive operation and monitoring.
- Integrated Ethernet and Modbus TCP/IP communication for remote control and data logging.
- Multi-channel support for managing multiple variable transformers or test systems.
- User-configurable automation sequences with voltage, current, or power regulation.
- SD card port for data export.
- Compact, serviceable design with modular electronic assemblies.





VALUE PROPOSITION

The MPX delivers a seamless bridge between traditional analog control and digital automation. With its advanced communications, touchscreen interface, and modular architecture, the MPX enables faster setup, greater flexibility, and more accurate, data-driven power management for modern test environments.



Set Point Signal → MPX Controller → Adjusts Output → Monitors Feedback → Matches Set Point





HOW IT OPERATES

The MPX Controller continuously measures and adjusts output voltage or current to maintain precise, stable operation under varying load conditions. Operators can control parameters directly through the touchscreen interface, via network connection, or using automation scripts over Modbus TCP.

The MPX's digital architecture supports both local and remote management, allowing engineers to monitor, log, and analyze performance data in real time while maintaining the accuracy and robustness of Staco's variable transformer platform.

Interfaces & Connectivity

- HMI 7-inch Color TFT LCD Touchscreen interface for intuitive local control
- Three (3) user programmable preset voltage setpoints available on touchscreen
- SD card slot to store different types of numeric and text data from the MPX
- Ethernet RJ-45 or Modbus TCP/IP ports for network control and monitoring, and advanced features, such as sending e-mail, web server, FTP access
- Manual Raise and Lower control within touchscreen
- Remote HMI mobile app for monitoring & control
- Analog I/O (4-20 mA) for process feedback and control loops

Advantages:

- **Next-Generation Control:** Combines analog precision with digital intelligence.
- **Enhanced Visibility:** Real-time data access through touchscreen and Ethernet connectivity.
- **Operational Flexibility:** Works as a stand-alone unit or integrated into automated systems.
- **Simplified Service:** Modular internal assemblies for fast maintenance and upgradeability.
- **Precise Regulation:** Programmable voltage deadband of +/- 0.1 volts
- **Data-Driven Performance:** Logs key performance metrics and alarms for analysis and optimization.
- **Future-Ready:** Expandable architecture for evolving test and control requirements.



How to Specify and Order MPX Controllers

Basic microprocessor units are full-range controllers in a NEMA-1 style enclosure or rack mount with customer HMI interface for setpoints, regulation, motor speed, and dead-band to satisfy your install requirements.

Model:

MPX-NEMA-1... NEMA 1 style enclosed
MPX-RACK... Rackmount

Integrated System Options

Amp readings displayed on Terminal
Current control and regulation

Technical Specifications

Operating Voltage: 120VAC, 50/60 Hz

Input Signals:

Programming:

- Remote analog input 4-20mA
- Digital input- local terminal and remote computer interface Modbus TCP and Ethernet
- Configurable Voltage Feedback: 0-779VAC L-L or 0-450VAC L-N

Output Signals:

- Alarms are displayed in the alarm banner and saved in the alarm log
- SD Card

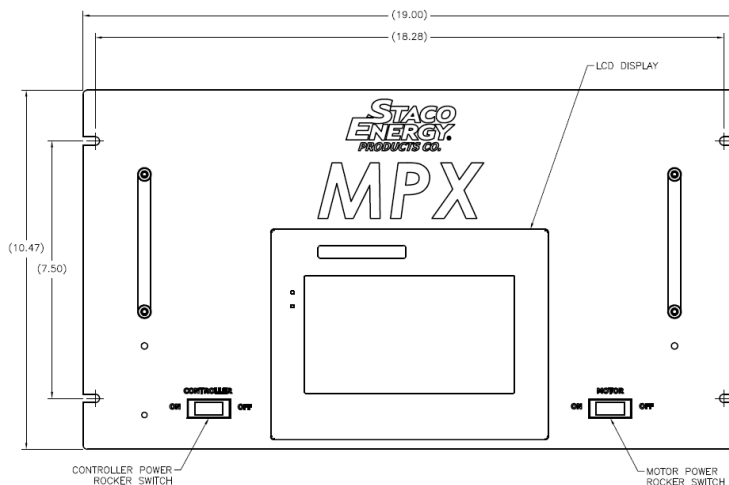
General:

- Operating temperature: 0-50 C

MPX-Rack

Rack Dimensions: 10.5 x 19 x 3.1 (HxWxD, Inches)

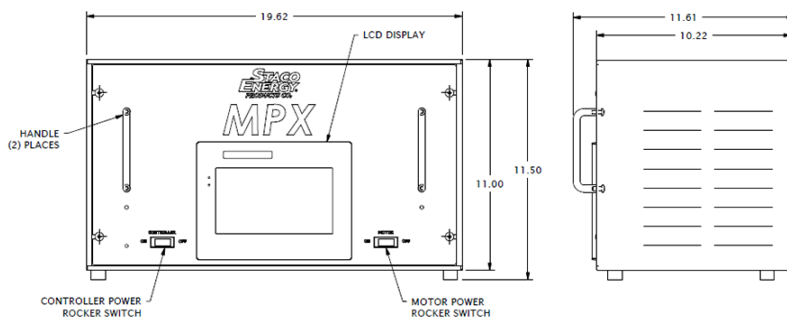
Net Wt: 21 lbs; Shipping Wt: 24 lbs.



MPX-NEMA-1

Nema-1 Dimensions: 11.5 x 19.6 x 3.1 (HxWxD, Inches)

Net Wt: 22 lbs; Shipping Wt: 25 lbs.



STACO SERVICE

FIELD SERVICE PROGRAM

Staco specializes in providing choice and flexibility by developing tailored solutions for preventive and remedial maintenance services, as well as emergency repairs for all of our products. Staco Service is built upon a nationwide network of highly trained and motivated customer support engineers and technicians who can provide professional services and care throughout the life of your equipment.

- Start-Ups
- Preventive Maintenance
- Spare Parts
- Battery Analysis/Refresh/Replacement
- On-Site Training
- Time & Material Services

WHY STACO ENERGY PRODUCTS?

BECAUSE WE ARE YOUR TAILORED POWER SOLUTIONS PROVIDER!

Unique application design demands, harsh environment concerns, the need to meet non-standard physical space requirements; providing the “not so usual” is what we do best. From leading edge uninterruptible power supplies, power conditioners, power factor and harmonic correction equipment, to the world’s most stable voltage control systems, we have the technology you need to protect and manage your business, and the knowledge to make it work for you.

Since 1937, customers worldwide have relied on Staco Energy as their tailored solutions provider, to solve a wide range of electrical power problems. Headquartered in Miamisburg, Ohio, Staco Energy Products is a wholly owned subsidiary of Components Corporation of America, located in Dallas, Texas.

Voltage Control



UPS & Emergency Lighting



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