

## Regulator control panel repair services

Service solutions for your T&D infrastructure

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MJ-3A



MJ-X



MJ-2A

Are your maintenance and operations personnel comfortable with the interface of Siemens MJ-2, MJ-2A, MJ-3 or MJ-3A regulator control panels? Want to bring these and your MJ-X and regulator simulation testing box up to the latest modifications and firmware revisions? Whether from corrosion, lightning strikes, misconfiguration or simple wear and tear, the Siemens regulator control panel repair center can repair and extend the life of your panels for maximum performance and reliability.

### Considering upgrading your panels?

See reverse side for comparison of Siemens MJ-3A control panel versus latest MJ-XL control panel technology.

### Control panel retrofits

Siemens MJ-XL is designed for retrofit on all makes of regulators. MJ-XL easily fits into the control cabinets for GE and Cooper regulators.

Siemens has long been a leader in the design and manufacture of voltage regulators. In 1933, Siemens partner, Allis-Chalmers, pioneered the field of step voltage regulators. Since that time, Siemens has maintained technical leadership in the development of an extensive line of step voltage regulators.

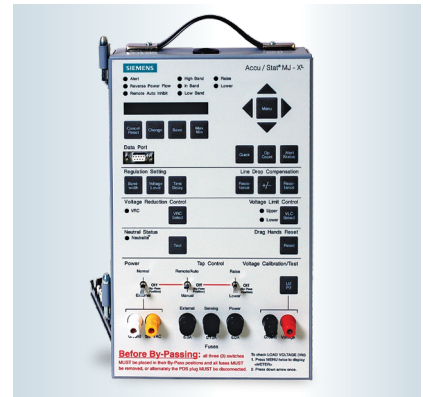
### Workscope

The typical control panel repair workscope includes:

- Visually inspect panel for external damage
- Reset to factory default settings to eliminate potential operator misconfiguration or error
- Perform full functional testing
- Troubleshoot and correct identified problem areas
- Update control to latest firmware revisions, circuit modifications, etc. for that model
- Operate for 24 hours to eliminate potential thermal problems
- 12- and 18-month warranty

## Comparing the Siemens MJ-3A to the MJ-XL control panel – general features

Feature	MJ-3A	MJ-XL
Robust tap control algorithm	standard	standard
BW, voltage, delay, line drop settings	standard	standard
Auto inhibit input (contact closure)	standard	standard
Microprocessor control	8-bit	32-bit
Siemens Polarized Disconnect Switch "PDS" (quick connect disconnect to regulator)	standard	standard (for Siemens version)
Supports Siemens paralleling method	standard	standard
Independent reverse settings	not available	standard
Frequency, KW, KVA and KVAR	not available	standard
Selectable U2 P2 at calibration connector	not available	standard
Motor current measurement	not available	standard
External motor control (terminal contacts)	not available	standard
Instantaneous metering	limited (with DataPak option)	standard
Forward demand	limited (with DataPak option)	standard
Reverse demand	with DataPak, reverse relay options standard	standard
Local data port (RS-232)	not available	standard
Voltage reduction (contact closure)	single contact pair	two contact pairs
DataReader compatible	not available	standard
Voltage limit control	with VLC option	standard
Reverse power flow	with reverse relay option	standard
Voltage reduction automatic mode	not available	standard
Time stamped minimum maximum data	not available	standard
Comprehensive interval logging	not available	standard
Event logging	not available	standard
Tap position indication	not available	standard
Energy with time date stamp	not available	standard
Derived operations counters (elapsed, 24 Hour, 30 day, month-to-date, etc.)	not available	standard
Time date stamping to the second	not available	standard
Time date stamping of alerts	not available	standard
Harmonics data	not available	standard (to the 31st)
Alternate time delay	not available	standard
Switchable reactive LDC polarity	not available	standard
Complete delta power calculation support	not available	standard
Field-upgradeable main program memory	not available	standard
Supports competitor paralleling method	not available	standard
Retrofits onto Cooper regulators	not available	with Cooper retrofit cable
Retrofits onto GE regulators	with kit, must replace cabinet	with GE retrofit cable
Automatic inhibit output (relay)	not available	standard
Auxiliary output relay (NC and NO)	not available	standard
Auxiliary input (contact pair)	not available	standard
Status signals for remote auto manual mode switch	not available	standard
Non-volatile data storage	not available	standard
Real time clock calendar	not available	standard



MJ-XL

### Contact us

To find out how these services may give you a competitive advantage, please contact your local Siemens sales representative or +1 (800) 347-6659.

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