

# Distribution Automation

## Strong Performance, Smart Results.

**Integrates with your distribution automation system.**

**Advanced data collection and analysis:** Increase system reliability cost-effectively.

**Custom configuration options:** User selects inputs and outputs, events, and alarm data.

**Improve reliability, increase flexibility, and realize long-term cost savings. Automate your distribution system without switching to a proprietary single-vendor system.**

The Automated M-Force Switch is a fully automated three-phase distribution class switching station with the advanced innovation of the Cooper Power Systems' iMC switch control, ProView control software, motor operator, optional sensors and an M-Force switch. It is available in 15 kV and 27 kV ratings, and integrates with virtually any automation component on your distribution automation system. Count on the intelligent solution for peak performance in all weather conditions – even ice build-ups.

**Advanced system integration features increase reliability and lower costs throughout your distribution system:**

- **Lower maintenance costs** – the flexible operator design reduces preparation time for line maintenance and prevents unintended operation.
- **Lower training costs** – no additional technical training is needed because all Cooper ProView platform products use the same programming language and operating techniques.
- **PeerComm broadcast peer-to-peer protocol and standard communications protocols** – five communication protocols (DNP3, 2179, 61870-5, DNP TCP/IP, Modbus); and the Communications Workbench increase reliability by getting the information you need when you need it.
- **ProView application software platform** – the customized automation you need. Features include the Switch Maintenance Monitor; remote control of switch, viewable logic for automation programming with customizable LEDs and one touch programming keys.
- **Motor clutch design** – provides added safety by preventing unintended operation.
- **Predictive maintenance feature** – lets you solve problems before they arise.
- **Heavy-duty ice-breaking capability** – for tough weather conditions.
- **High capacity batteries** – can operate the switch and control for longer periods – even under severe conditions and after loss of AC power.
- **Magnetic reverse loop contact design** – is durable and field proven.



## The Cooper Advantage

Integrated products with the power of experience.

### Increased reliability. Lower Costs. The Automated M-Force Switch.

Find out how you can customize your intelligent automation solution at [www.cooperpower.com](http://www.cooperpower.com), or call 877-CPS-INFO.

The advantage of distribution automation from Cooper Power Systems:

- Your single source – for Distribution Automation products.
- Expert service – only one vendor to call.
- Lower lifetime costs – with increased flexibility and reliability.
- Advanced system integration capabilities – allow you to build a complete distribution automation solution.

The Automated M-Force Switch is part of a complete package of Cooper Power Systems products designed to automate and integrate your entire system – even if your other system components were not manufactured by Cooper Power Systems.



# S&C Invented Pad-Mounted Switchgear

50 Years Ago . . . And We've Never Stopped Adding New Features and Functions

Along the way, we've brought you such innovations as:

- **PMH Models featuring Uni-Rupter™**, for simple, foolproof single-pole live switching
- **PME Models** with switch and fuse components enclosed and protected within an inner, air-insulated, grounded steel compartment that keeps out wildlife and contaminants . . . and reduces exposure to energized live parts
- **Remote Supervisory Models, featuring the unique IntelliTEAM II® Automatic Restoration System**—a field-proven Smart Grid solution that provides self-healing response to distribution system problems
- **Source-Transfer Models** for fully automatic three-pole switching of the sources serving critical loads that require a high degree of service continuity



*Hinged roof on PME Pad-Mounted Gear*



*Pad-Mounted Gear with Additional Load Feeder Capability*



*Arc-resistant PME Pad-Mounted Gear*

Here are just a few of S&C's latest developments that extend the application of pad-mounted gear and make installation and operation easier than ever:

- **25-kA short-circuit rating for 14.4-kV PME Models**
- **UL-listed 14.4-kV PME and PMH Models**
- **Canadian Standards Association listing for PMH Models**
- **Arc-resistant construction** tested per IEEE C37.20.7
- **Hinged roof for PME Models** simplifies cable-pulling . . . through the roof opening
- **Models with Additional Load Feeder Capability** handle more loads per unit



*Original Pad-Mounted Gear, 1960*

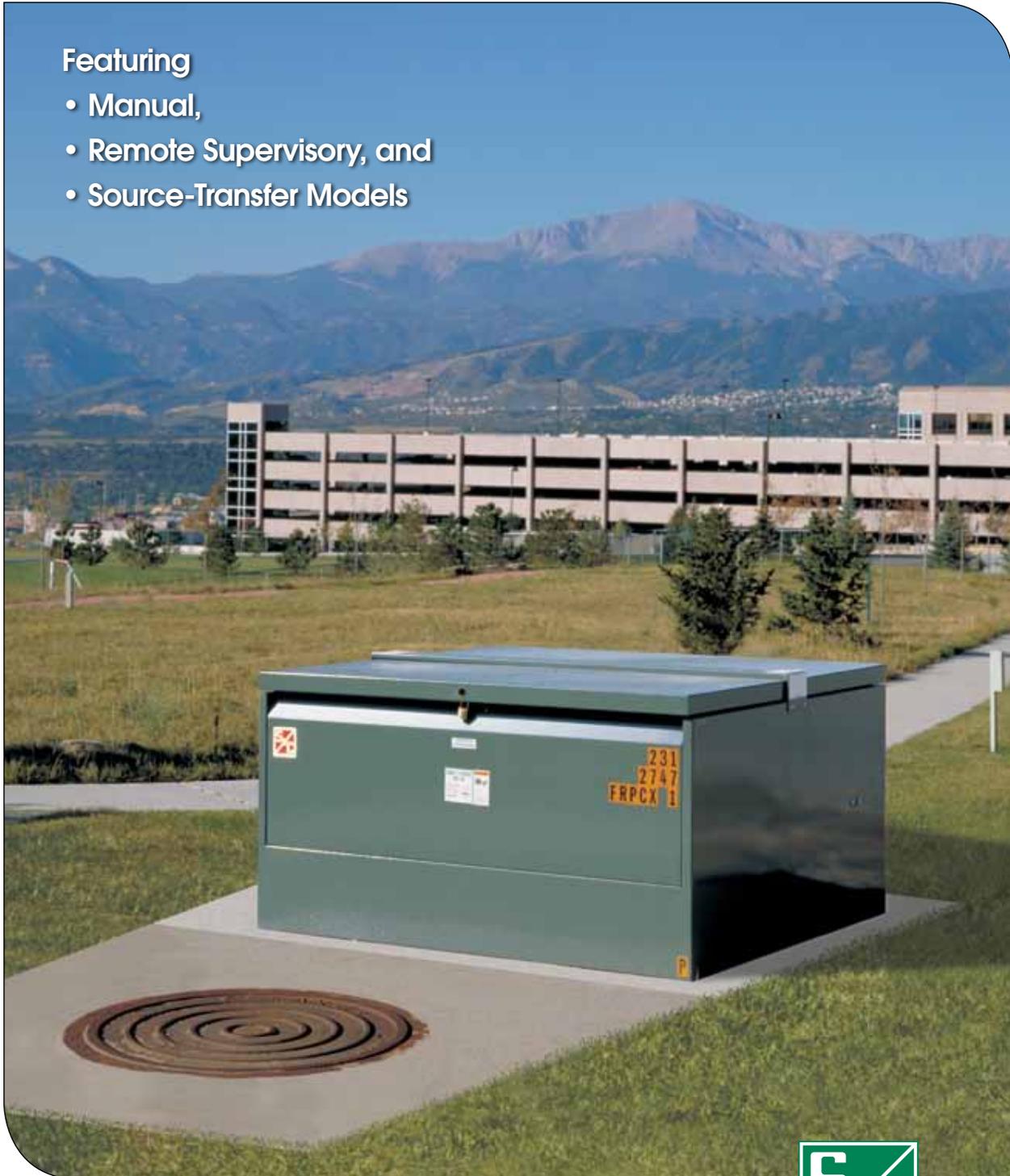
For more information on S&C's complete line of live-front PMH Pad-Mounted Gear, dead-front PME Pad-Mounted Gear, and underground distribution services, visit [sandc.com/pmt](http://sandc.com/pmt)



**S&C ELECTRIC COMPANY**  
Excellence Through Innovation

Featuring

- Manual,
- Remote Supervisory, and
- Source-Transfer Models



# S&C Vista<sup>®</sup> Underground Distribution Switchgear

Outdoor Distribution, 15.5 kV through 38 kV

## Vista Underground Distribution Switchgear Addresses Your Concerns

- Are you wasting money and resources on time-consuming, labor-intensive routine operation of your switchgear?
- Has coordinating upstream protective devices with downstream fusing become a headache?
- Are your customers complaining that they don't want obtrusive green boxes on their property?

S&C's Vista Underground Distribution Switchgear is the answer to these and many other underground distribution system problems. S&C worked closely with electric utilities and power users to identify and satisfy needs that were not being met by conventional

underground distribution equipment. Vista UDS is an exceptional product that meets all of these needs.

Vista Underground Distribution Switchgear is available in manual, remote supervisory, and source-transfer models. All models feature load-interrupter switches and resettable, vacuum fault interrupters or arc spinners in series with disconnect switches, elbow-connected and enclosed in a submersible, SF<sub>6</sub>-insulated, welded steel tank. Vista UDS is available with up to six "ways," in ratings through 38 kV and 25 kA symmetrical short-circuit. Large windows in the tank provide a clear view of the open gap, ground position, and ground bus.

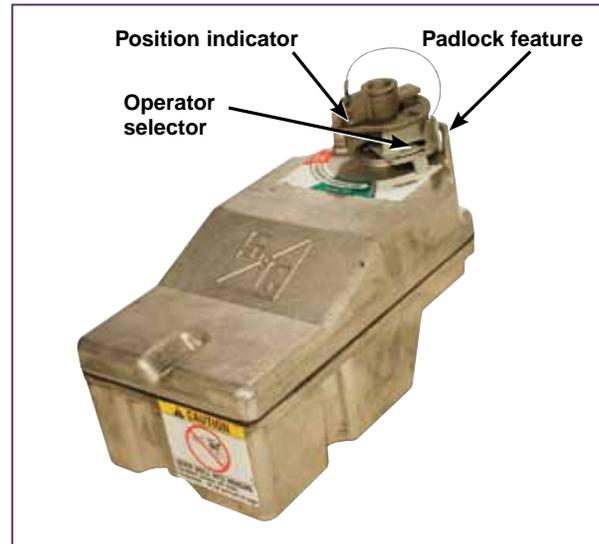


Remote Supervisory Pad-Mounted Style Vista UDS installation.

## Remote Supervisory Vista UDS

For distribution automation applications, S&C offers Remote Supervisory Vista UDS. Remote Supervisory Vista UDS provides automated switching and fault protection, and can also perform auto-sectionalizing without tripping the main breaker. Automation features are also retrofittable to existing Manual Vista UDS. Motor operators, current and voltage sensors, and low-voltage compartment are easily installed in the field.

Each motor operator includes a control board that provides local push-button and remote operation between the “closed,” “open,” and “grounded” positions. Up to six control boards can be accommodated within the low-voltage compartment, so any or all load-interrupter switches or fault interrupters can be motor operated. The motor



Details of motor operator.



15-kV Remote Supervisory Pad-Mounted Style Model 422.