Integrated Equipment Solutions

Protect your revenue stream with integrated solutions to keep your equipment and store running 24/7.

SQUARE D™

by Schneider Electric

From fueling controls, to interior and exterior lighting, to POS systems and power distribution, you have a lot to manage in order to keep your C-store open, profitable, and safe. Square D™ by Schneider Electric™ Integrated Equipment can help make your job easier, offering you a simple, integrated, and reliable way to manage your facility.

Save valuable space, time, and money with integrated power and control products that combine electrical distribution, electrical controls, and power quality assurance into a single enclosure. Improve power quality and protect electronic equipment, manage and control lighting for energy efficiency, and increase your revenue-producing retail space with integrated solutions from Square D. With 100 years of experience and industry leading expertise, Schneider Electric delivers the reliable solutions you need.

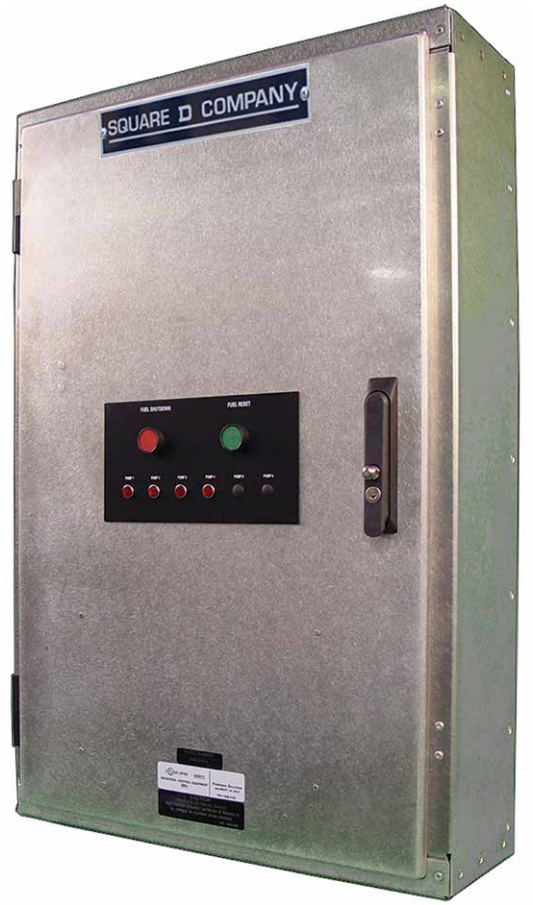
The Integrated Equipment advantage:

- **Space saving:** Increase revenue with more retail floor space
- **Simple:** Enjoy easy-to-connect and easy-to-use solutions for management and control
- **Reliable:** Keep your equipment and facility running so you don't lose revenue or customers
- **Integrated:** Integrate products and solutions in one enclosure for ease-of-use and space savings
- **Safe:** Meet required codes, avoid inspector issues, and keep your customers safe
- **Time saving:** Faster and easier installations save time and labor costs
- **Industry leading:** Access 24/7 technical support from the industry leader
- **25-year product warranty:** Unmatched in the industry

Square D Dispenser Manager-EX

Solve fueling control problems with a simple, integrated solution.

Field-installed fuel controls, such as emergency shutdown contactors, isolation relays, submersible turbine pump control boxes, and maintenance disconnect switches, are difficult to install, challenging to start up, costly and time consuming to maintain. Now, you can enjoy time-saving installation, consistent operation, factory-tested reliability, and expansion capabilities with the Dispenser Manager-EX (DM-EX). This single, integrated solution helps save you time and money.



- **Space-saving:** Single, compact cabinet is prewired with controls and STP contactors
- **Easy to install:** Eliminates the need for separate wiring of submersible turbine pump control boxes
- **User friendly:** Front-mounted interface panel with emergency stop, reset switches, and pump status indicator lights
- **Integrated:** Prewired interfacing for remotely located tank monitoring systems, emergency stop switches, and cashier consoles
- **Expandable:** Plug-and-pump expandability for easy addition of dispenser modules with track-mounted design and ribbon cable connection
- **Flexible:** Choose the model you need based on your specific requirements
- **Safe:** Patented design and pre-engineered circuits comply with codes and standards, complies with National Electrical Code (NEC) Article 514.11 and Article 514.13
- **Simple:** Single point of connection for all dispenser power circuits, Low Voltage Dispenser Disconnect (LVDD) can be wired into the DM-EX module to disconnect both power and low voltage circuits from a single switch

In addition to being a stand-alone unit, the DM-EX Module is available as a subsystem of the Power Distribution Center or the On Site Manager. Contact your sales representative for more details.

The DM-EX Module is a patented controller that integrates the operation of dispensers, submersible pumps, individual dispenser shutdown, and emergency shutdown of the complete fueling system. It can be easily interfaced to any tank monitoring system and remote emergency switching controls.

With a current customer base that includes multiple national accounts and an experienced and established rep network, you can count on Square D solutions!

Electrical and operational requirements for Multi-Product Dispensers (MPDs) are installed on the DM-EX modular control circuit boards.

Square D Peripheral Controls for Fueling Applications

Emergency shutdown switches.

Square D controls for fueling applications are safe, simple, and flexible. Remote-mounted control options provide an emergency shutdown system of the DM-EX controls. Keep your store code-compliant and safe.

- **Flexible:** Options for emergency shutdown only or emergency shutdown with reset
- **Reliable:** Surface-mount, weatherproof enclosures
- **Safe:** Meets UL 508A Standards for Industrial Controls

Multiple options available:

- **EM-01G:** All new fueling system emergency shutdown switch mounted in a guarded enclosure with a yellow cover for easy visibility. Momentary pushbutton type shutdown switch is protected from the weather and accidental contact by a semi-circle guard.
- **EM-01:** Fueling system emergency shutdown switch mounted in a weatherproof enclosure. Shutdown switch is a momentary pushbutton type with a clear, hinged, and spring-loaded cover to minimize tampering.
- **EM-02:** Fueling system emergency shutdown switch and reset switch mounted in a weatherproof enclosure. Both shutdown and reset switches are momentary pushbutton type.
- **EM-03:** Fueling system emergency shutdown switch mounted in a weatherproof enclosure. Shutdown switch is a momentary pushbutton type with a clear, glass break cover to minimize tampering.

Cashier control center

Control emergency shutdown, reset, bypass, and alarms from one single, space-saving remote-mounted control cabinet. This simple solution eliminates the need for separately wired control boxes.

- **Simple:** Space-saving design eliminates the need for separately wired control boxes
- **Flexible:** Available options include doorstrike switching, doorstrike transformer, and car wash shutdown
- **Safe:** Meets UL 508A Standards for Industrial Controls

Square D Peripheral Controls for Fueling Applications (continued)

Multiple options available:

- **CC-01:** Base unit includes emergency shutdown and reset switches, lighting bypass switch, and two 120 V pilot lights. Surface-mount and flush-mount kit available.
  - CC-01PB – Also includes car wash shutdown pushbutton switch
  - CC-01SS – Also includes doorstrike switch
  - CC-01SSPB – Also includes car wash and doorstrike switches
- **CC-02:** Base unit includes emergency shutdown and reset switches, lighting bypass switch, pilot lights (4-pump status, 3-outdoor lighting status, and emergency shutdown), and flashing leak alarm light; flush mount.
  - CC-02PB – Also includes car wash shutdown pushbutton switch
  - CC-02SS – Also includes doorstrike switch
  - CC-02SSPB – Also includes car wash and doorstrike switches
  - CC-02SSPBXF – Doorstrike transformer added

Square D Low-Voltage Dispenser Disconnect

Stay code-compliant with a safe, reliable solution.

With the LVDD you can keep your facility and customers safe with a single, reliable solution. Our LVDD provides a way to disconnect low-voltage electrical circuits connected to dispensing equipment to keep your store NEC compliant. Latest revisions to the 2011 NEC state that all power including communication, data, and video circuits leading to or through dispensing equipment must have a remote means to disconnect from the source of supply.

- **Safe:** Complies with 2011 NEC Articles 514.11 and 514.13
  - UL Listed — UL 1238 control equipment for use with flammable liquid dispensing devices
- **Simple:** Individual disconnects for each dispenser — CRIND data, dispenser data, intercom and speaker, loyalty card systems, and video/cat 5/cat 6
  - Switches isolate lower voltages for maintenance and servicing purposes and are also wired into the emergency shutdown system
- **Flexible:** Compatible with any fueling control system and all dispenser manufacturers
  - Suitable for new and retrofit construction
- **Compact:** Modular design saves valuable wall space
  - Enclosure design provides locking provisions for lockout/tagout requirements
- **Integrated:** Single point of disconnect capability for power and low-voltage circuits when installed with DM-EX Dispenser Manager solutions

Square D Lighting Manager

Easily control lighting for energy and cost savings.

Enjoy simple, integrated control with the Lighting Manager. An automatic lighting control system, it replaces manual controls with a single-enclosure solution that integrates ambient light sensing, digital controls, and power switching of lighting circuits. Factory-assembled and prewired for easy installation. This single, integrated, and space-saving system lets you easily control all your lighting from one place for energy efficiency and electricity cost savings!

- **Simple:** Single point termination for all controlled circuit wiring
- **Efficient:** Easily control lighting to improve energy efficiency and save money
- **Space-saving:** Small footprint for new construction or retrofit applications saves valuable wall space
- **Flexible:** Customize preloaded programs according to your needs
- **Reliable:** Proven reliability and low failure rate reduces maintenance and replacement costs
- **Safe:** UL Listed to UL 508A Industrial Control Panel Standards
- **Easy to install:** Saves installation time and costs with prewired controller and contactors, avoid installation of separate individual controls

Enjoy flexible lighting control:

- 16 inputs and 10 zones of control
- Stage lights to turn on based on ambient light level and time-of-day schedule
- Built-in timed and emergency override switches
- Program stored on EEPROM flash memory
- Includes photo sensor instead of a mechanical photocell for improved reliability
- Includes 10 30 A 4-Pole contactors prewired to controller outputs

Powerlink

Access overcurrent protection, lighting control, and energy monitoring in one solution.

Powerlink™ is a flexible and easy lighting control solution to help you improve energy efficiency and reduce electricity costs. Housed in a standard lighting panelboard, there are no extra cabinets to mount, relays to wire, or complex panel schedules to decipher, making Powerlink easier to install and use.

- **Simple:** Can accommodate switching and standard breaker configurations on same interior
- **Efficient:** Energy savings provide quick ROI
- **Space-saving:** Small footprint saves valuable wall space
- **Safe:** Complies with Title 24 requirements, UL Listed, NEC 110-10
- **Integrated:** Remotely-operated circuit breakers combine standard protective features with switching functions of a contactor, eliminating the need for separate relays or contactors and additional enclosures and wiring
- **Easy to install:** Single enclosure solution factory-assembled and prewired, no on-site handling, storing, installing, and wiring of multiple loose components

Enjoy flexible lighting control:

- Improve energy efficiency by shutting lights off when unoccupied
- Microprocessor-based controller for intelligent monitoring and web-based functionality
- Internal time scheduler switches breakers according to predefined daily schedules
- Bacnet and modbus communication protocol
- Rated as a switching breaker at over 200,000 life cycles
- Sub-net architecture enables a master panel to control up to 3 additional Powerlink panels or 8 bus strips
- Available for 277/480 V and 120/208 V systems
- 1-, 2-, and 3-pole breakers available up to 30 amp ratings

Square D Power Manager

Protect electronic equipment with clean, conditioned power.

Protect your electronic equipment and stay up and running with the Power Manager. This single enclosure solution eliminates the need for multiple hardware solutions and improves your equipment and facility reliability. The Power Manager minimizes damaging voltage spikes and power ripples and provides clean, conditioned power to your electronic loads. Avoid issues such as computer lock-ups, lost data, equipment damage, and downtime.

- **Safe:** UL Listed to UL 508A and UL 891 Standards
  - Provides NEC required overcurrent protection for all connected electronic loads and dedicated isolated ground receptacles
- **Simple:** Dedicated panel for critical loads, small footprint, simplified service, and maintenance
- **Reliable:** Proven performance, trusted and specified by national account customers
- **Easy to install:** Single enclosure solution factory-assembled and prewired

Dedicated power conditioning:

- Provides up to 16 circuits of conditioned power
- Available in 3 kVA and 6 kVA models
- Isolated ground bar for sensitive electronic load termination eliminates improper electronic circuit grounding
- Ensures communicating electronic systems are on the same phase, preventing corrupted data due to voltage variances
- Eliminates potential ground loops, increasing electronic equipment reliability
- Optional centralized battery back-up available, replacing the need for multiple Uninterruptible Power Supply (UPS) products
- Eliminates the need for multiple hardware solutions
- Single 3 kVA UPS vs. up to six 500 VA plug-in UPS products, freeing up valuable space

Surge Protection Solutions

Prevent lost revenue due to power and equipment failure with Square D Surge Protection.

Now, you can avoid costly downtime and equipment failures with Surge Protection Devices. Hindsight is 20/20, but with surge protection, you can prevent an issue before it occurs, saving you time and money.

Surge protection devices protect your equipment and power system from damaging overvoltages known as transients. They are the single most destructive, costly, and common power quality-related event, resulting in equipment damage, system downtime, and lost revenues.

While transients can be caused by external sources such as lightning and power system faults, there are also daily internal transients that can cause long-term damage and cost you money. Internal sources account for 80% of transients and can be produced by simple turning on and off of equipment. They can occur several hundred thousand times per hour and can cause erratic operation, process errors, and eventual equipment failure, costing you money in damages and lost revenue. Choose surge protection devices and surge diversion managers for protection you can count on. From standard to sensitive electronic equipment, we can protect your whole store, helping you stay up and running!

Surge protection is available for internal and external equipment and systems, including:

- Electrical system components
- Site controllers
- Car wash power/controls
- Point of sale (POS) terminals
- PCs/office equipment
- Lottery machines
- Video/security systems
- Card readers
- Telephone systems
- Fax/modem/data lines
- Fuel dispensers/pumps
- Exterior lighting/signs
- Automatic teller machines
- UPS/battery back-up systems
- Compressors/motors
- Interior lighting

Safeguard your equipment, your store, and your revenue.

Square D Surge Diversion Managers for Fueling Applications

Surge Diversion Managers (SDMs) protect facilities and equipment against the harmful effects of lightning strikes and electrical transient voltage surges. Using an SDM at the electrical power entrance protects your equipment from high amplitude externally-generated electrical transients. Installing an SDM at the equipment panelboard provides primary protection against internally-generated electrical transients. Based upon your electrical system configuration, additional protection may be recommended.*

Square D offers the Advantage® Series SDMs through its approved vendor, Surge Suppression Incorporated®.

* When properly installed and grounded, SDMs minimize damage and downtime caused by internal and external transients. However, no surge diversion module can protect equipment from the effects of a direct lightning strike.

Square D Integrated Power Center

Integrate power, lighting, and fueling control in one space-saving solution.

Enjoy on-site control and power distribution with this integrated, single solution. The Integrated Power Center saves you valuable installation time and wall space with its reduced footprint. Increase your retail floor space for additional revenue. Control lighting, fueling, and power distribution for your entire store in a single enclosure.

- **Safe:** UL Listed to UL 508A Industrial Control Panel Standards and UL 891 Enclosed Switchboard Standards, meets all NEC requirements
- **Integrated:** Contains lighting, fueling, and switchgear control in small footprint
- **Reliable:** Proven performance, customized layouts and solutions available
- **Space-saving:** Reduce amount of wall space required for electrical equipment by an average of 60%
- **Easy to install:** Single enclosure solution, factory-assembled and prewired

Enjoy on-site control:

- Power distribution, service entrance rating available
- Flexibility in design to accommodate your site requirements for dispensers, submersible pumps, and lighting control
- Interface terminal strip for fueling controls
- Patented DM-EX module technology
- E-stop and dispenser reset
- Provides programming and status indication with door closed
- Square D I-Line main distribution panelboard and Square D NQ/NF panelboards for proven reliability

Square D On Site Manager for Fueling Kiosks

Make the most of limited space with this integrated controls solution.

The Square D On Site Manager (OSM) is a unique combination of a circuit breaker panelboard and fueling and lighting controls integrated into a single enclosure. Ideally suited for fueling kiosks, the OSM line provides you with time-saving installation, consistent operation, factory-tested reliability, and advanced microprocessor and DM-EX module technology. Add optional transient voltage surge suppression for additional protection.

Save installation time and costs with this single solution in a smaller footprint. With reduced wall space required by electrical equipment and eliminated electrical closets, you can potentially increase retail space for more revenue.

- **Integrated solution:** Single, space-saving cabinet prewired with electrical distribution, lighting, and fueling controls
- **Space-saving:** Reduce wall space required by electrical equipment by an average of 60%
- **Reliable:** Consistent operation, factory-tested reliability
- **Safe:** UL Listed to UL 508A Industrial Control Panel Standards, UL 891 Enclosed Switchboard Standards, meets all NEC requirements
- **Consistent application:** Standardize electrical equipment layout across multiple locations and stores
- **Time-saving installation:** Prewired single enclosure solution reduces electrical system installation labor by an average of 90%

Our fueling and lighting controls are also available as subsystems of the Power Distribution Center and Lighting/Dispenser Manager or as stand-alone products for new installation or retrofit applications.

DM-EX Module

The diverse electrical components and requirements for Multi-Product Dispenser (MPD) fueling controls are pre-engineered on our patented DM-EX module. It provides the integrated operation of dispensers, submersible pumps, tank monitoring, and remote emergency switching, as well as emergency shutdown capabilities for the complete fueling system.

NQ Panelboard

The Square D NQ family of panelboards has a proven record of reliable performance for 240 V maximum systems. Frequently specified to power lighting systems and small electrical equipment, they are the industry's choice for reliable, easy-to-install, off-the-shelf panelboards.

Lighting Manager-Z10

The LM-Z10 saves energy and reduces electrical costs by integrating ambient light sensing, digital controls, and power switching of lighting circuits. The programmable lighting controller is flush-mounted in the door and provides automatic operation of all outside signs, canopy lights, and site lighting to maximize operating efficiencies.

Square D Standby Power Quick Connect Solutions

Stay up and running even when the power is down.

Standby Power Quick Connect Solutions connects your electrical system to your generator for easy power recovery in the event of a power loss. Now you can keep your store open and generating revenue even when the power is out.

- **Safe:** UL 1008 SB Listed product, mechanical lug version meets UL 1773
- **Simple:** Offers centralized quick connect means for generator connection
- **Reliable:** Proven performance, 200 A, 400 A, 600 A offerings
- **Easy to install:** Single enclosure solution factory assembled and prewired

Generator Quick Connect:

- Cam lock and mechanical lug options available
- Fold up trap door at bottom of enclosure for easy access to Cam-lock connectors
- Barrier over mechanical lugs for safety
- N-3R enclosure, can be used for N-1
- 240 V and 480 V versions available in 3ph + N + G
- Mechanical lug offering rated for Type-W cable

Building Insights: Building Management System

Manage your entire store from one automated system.

Enjoy improved control and management of your entire store. Manage lighting controls, HVAC, fueling controls, and more from one central, remote location. Easily manage your energy use, control systems, and improve your operational efficiency.

- **Affordable:** No license fee, Building Expert mini-iBMS, quick ROI
- **Easy to install:** No downtime, retrofits can be performed at reduced labor and material costs
- **Integrated:** Controller, gateway, and server in one box
  - Control multiple systems
- **Simple:** Open system for HVAC, lighting, and metering
  - Preconfigured objects and applications
- **Flexible:** Combine wired and wireless according to your needs
- **Scalable:** Ready to meet future regulations and benchmarks

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January 2015

Square D Integrated Equipment

Maximizing patient care space in healthcare facilities

schneider-electric.com/us

SQUARE D™
by Schneider Electric

Saving space for saving lives

Space in healthcare facilities is at a premium. With medical equipment, supplies, staff, and patients to accommodate, maximizing space can be crucial. Plus it can have a direct effect on the bottom line, since more room for patients equals more revenue.

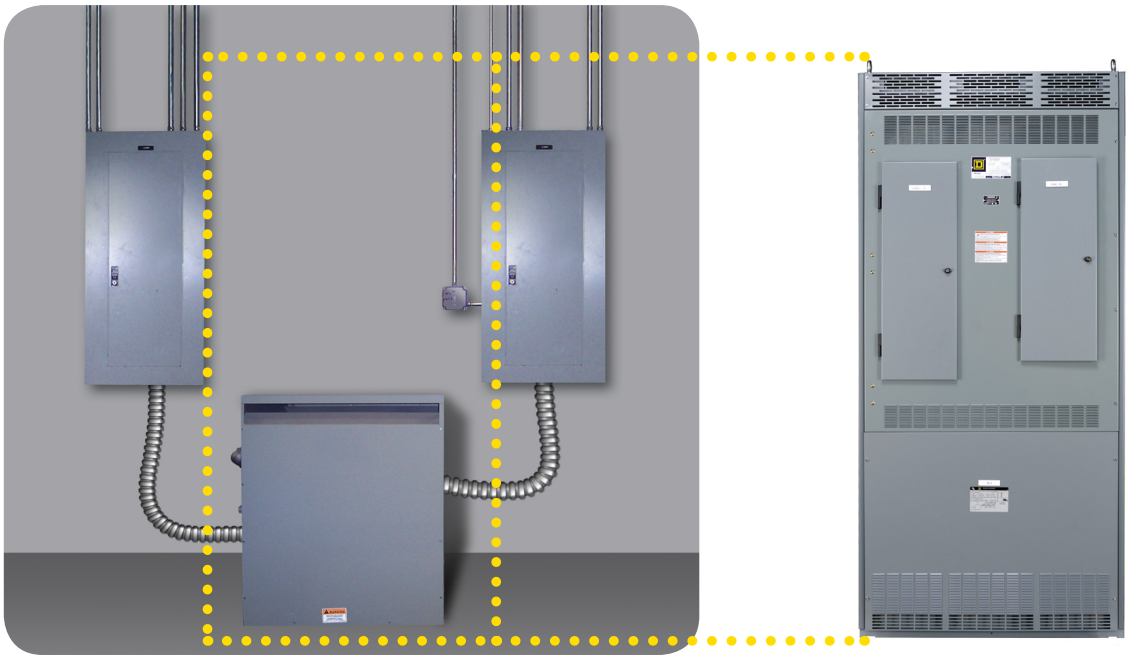
One way to increase valuable floor space is to decrease the size of the electrical room. Square D™ by Schneider Electric™ Integrated Equipment saves up to 40% of the space required for electrical distribution. With panelboards, transformers, and even building controls in a single enclosure, it installs quickly and with less materials and handling. Integrated Equipment features a clean design and easy access, keeping the electrical room neat and space-efficient.

See the difference!

Footprint comparison

Stick-built

Integrated Equipment



Estimated labor hours:

Stick-built: 26 – 32

Integrated equipment: 3 – 6

Number of pieces handled:

Stick-built: 20 – 21

Integrated equipment: 1

Materials saved:

Stick-built: Associated pipe, wire, and fittings

Integrated equipment: n/a

Lower materials costs

See Dan the Man prescribe the right solution at a healthcare facility!

Scan here to watch the video.

Schneider Electric Case Study

Children's Hospital of Orange, California

Hospital increases revenue-generating patient care space with Square D Integrated Equipment

The Challenge

Nothing is more important at a hospital than patient care. Maximizing the amount of hospital space focused on patient treatment and care is crucial. A children's hospital in California discovered that it could increase its revenue-generating patient care areas by decreasing the size of its electrical rooms. To do this, the hospital needed to find a solution that provided all of its electrical power requirements but in a significantly reduced footprint.

The Solution

Bergelectric Corp., a trusted contractor in the Greater Los Angeles Region area for over 68 years, partnered with the hospital to find the right solution. By installing Square D Integrated Equipment, the contractor was able to deliver significant space savings while still providing reliable power that could be counted on. Sixteen panels and four transformers were put in each electrical room, taking up less than half the space of conventional, stick-built gear.

By using a mix of Integrated Power Center (IPC) and Integrated Power Center 2 (IPC2) products, Bergelectric and the hospital were able to reduce the overall footprint of the electrical room by 50 percent, leaving plenty of room for easy maintenance access. Factory assembled, prewired, and tested, each IPC2 compact unit takes up 3.5 feet of space compared to the traditional 7 feet required by conventional gear. The additional panels for each room fit in the IPC unit, which is also compact in width and a mere 10 inches in depth. Plus, the equipment installs up to 90 percent faster than traditional stick-built.

The use of Square D Integrated Equipment allowed the hospital to increase its patient-focused space while still meeting mission-critical electrical needs. With the use of single-enclosure solutions, the electrical room was clean and spacious, with room for facility maintenance and future electrical system expansion.

Hans Erickson, division manager, Bergelectric Corp., commented, "These were some of the cleanest electrical rooms we have ever installed. Being able to fit that much gear in a compact room and still feel spacious was a huge value to the hospital."

Integrated Power Center

Integrated Power Centers (IPCs) combine electrical distribution equipment and building management controls into a single factory-assembled and prewired integrated system. Enjoy faster installation and reduced space requirements with an IPC that replaces the traditional method of independently mounting each panelboard, lighting control, and building management system.

80 – 90%
Faster installation time

Meets applicable codes and standards

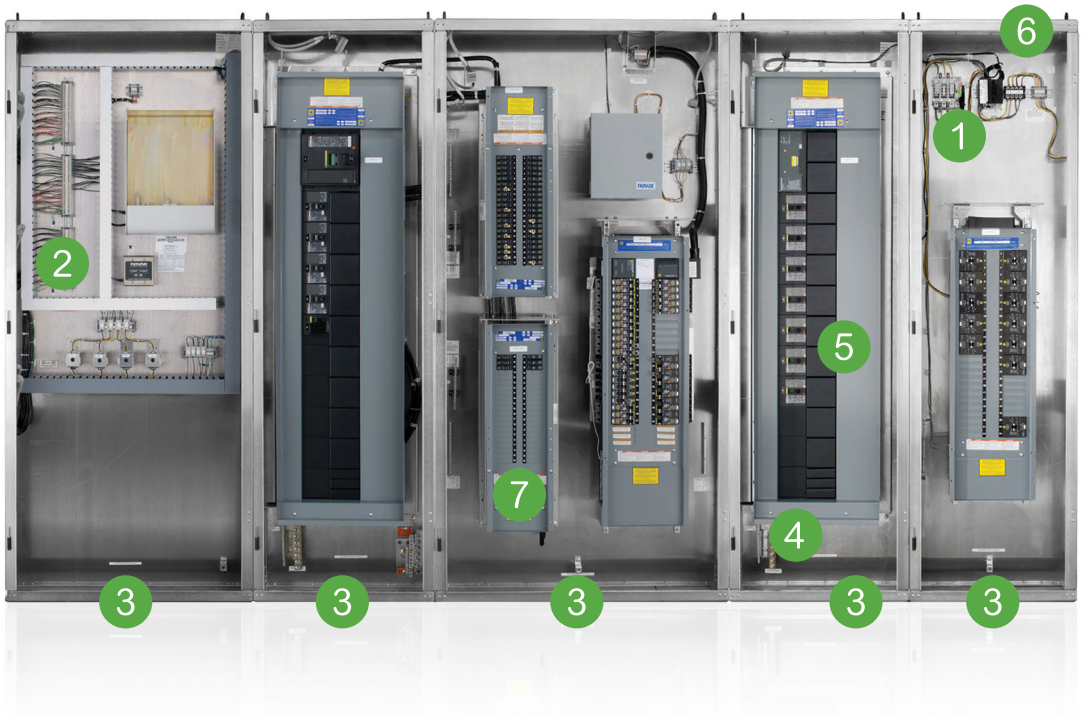
– NEC requirements for circuit breaker handle height

– NEC requirements for wire space

– UL 891 Deadfront Switchboards

– UL 508 Industrial Control Systems

- IPC sections are assembled together at the factory, reducing labor and installation time at the job site
- Close coupling sections eliminate the need for interconnecting conduits and box connectors, and shorten feeder cable runs
- Three large rectangular openings are provided between sections, allowing you to quickly and easily route cables from one shipping split to another
- IPC enclosures are 10.25 in. deep, providing ample space for installing branch conductors at the job site
- Up to 65 kA Short Circuit Current Rating (SCCR); fully tested system at 480 Y/277 V



1 **Power meter module**
Offers a variety of cost-effective, pre-installed metering options, including main power monitoring, branch circuit monitoring, and revenue-grade tenant submetering.

2 **Control screens, multiple options available**
Energy management system (shown), additional options available, including prewired lighting contactors that reduce installation cycle time.

3 **Bottom box cutouts**
Cutouts in the bottom endwall of each section permit conduit to be stubbed up into the bottom of the enclosure, eliminating the need to cut conduit openings at the job site, saving installation time and labor costs.

4 **Ground cable**
Factory-installed ground cable terminations are provided to comply with the UL 891 standard.

5 **Feeder breakers**
Feeder breakers in the power panel can be factory wired to the main breaker or main lugs of each lighting panelboard interior in the line-up, reducing labor and material cost.

6 **Control wiring**
Control wiring required for metering applications, energy management, or ground fault systems can be factory installed and tested, reducing labor and installation time at the job site.

7 **Lug terminations and cables**
All lug terminations and cables are marked to indicate phase connections material cost.

Integrated Power Center 2

The Integrated Power Center 2 (IPC2) is a family of Square D products that includes free-standing front- and rear-aligned equipment available in multiple enclosure options. Configurable based on your specific requirements, IPC2 solutions provide options for multiple applications, including retail, commercial, healthcare, education, and industrial. Electrical distribution equipment and building controls are factory installed and prewired, saving valuable material handling and installation time at the job site. Close coupling between sections eliminates additional material, including wire, conduit, and fittings. Because components are stacked, there is a reduced amount of floor and wall space required.

- Prewired and factory assembled for faster installation
- "Panels over Panels" configurations
- "Panels over Transformer" configurations
- Integrated automatic transfer switches
- Freestanding construction that can be close-coupled to QED switchboards
- Front- and rear-aligned sections available in multiple widths
- Available in NEMA 1, NEMA 1 with driphood, and NEMA 3R construction
- Powerlink™ lighting control solutions
- PowerLogic™ power monitoring and control
- Hinged panelboard wire gutter access door
- Factory-installed power cables
- Top and bottom conduit entry/exit space available
- Available as a stand-alone solution or can be close-coupled to Square D:
  - IPC2
  - IPC
  - Modular Panelboard System (MPS)
  - QED switchboards

Earn LEED points

NF Panel
Proven reliability, optional configurations available include up to 800 A at 600Y/347 Vac. Subfeed circuit breakers, copper neutrals and grounds.

NQ Panel
Lighting panelboard with 240 Vac maximum rating. Accepts both QO plug-on and QOB bolt-on circuit breakers.

Feeders
Prewired feeders included when selected. Feeders between shipping splits will be rolled back for shipment to be terminated during installation.

Energy-efficient Transformer
Low temperature rise for energy savings and longer life.

Ground Bus
Rated for up to 2,000 A systems, through-bus for entire lineup when multiple IPC2 sections of same depth are used.

Modular Panelboard System

The Square D MPS bundles electrical distribution equipment into a single factory-assembled and wired integrated system. Save valuable installation time and use less space with MPS instead of independently mounting each panelboard and lighting control system.

Meets applicable codes and standards

– NEC requirements for circuit breaker handle height

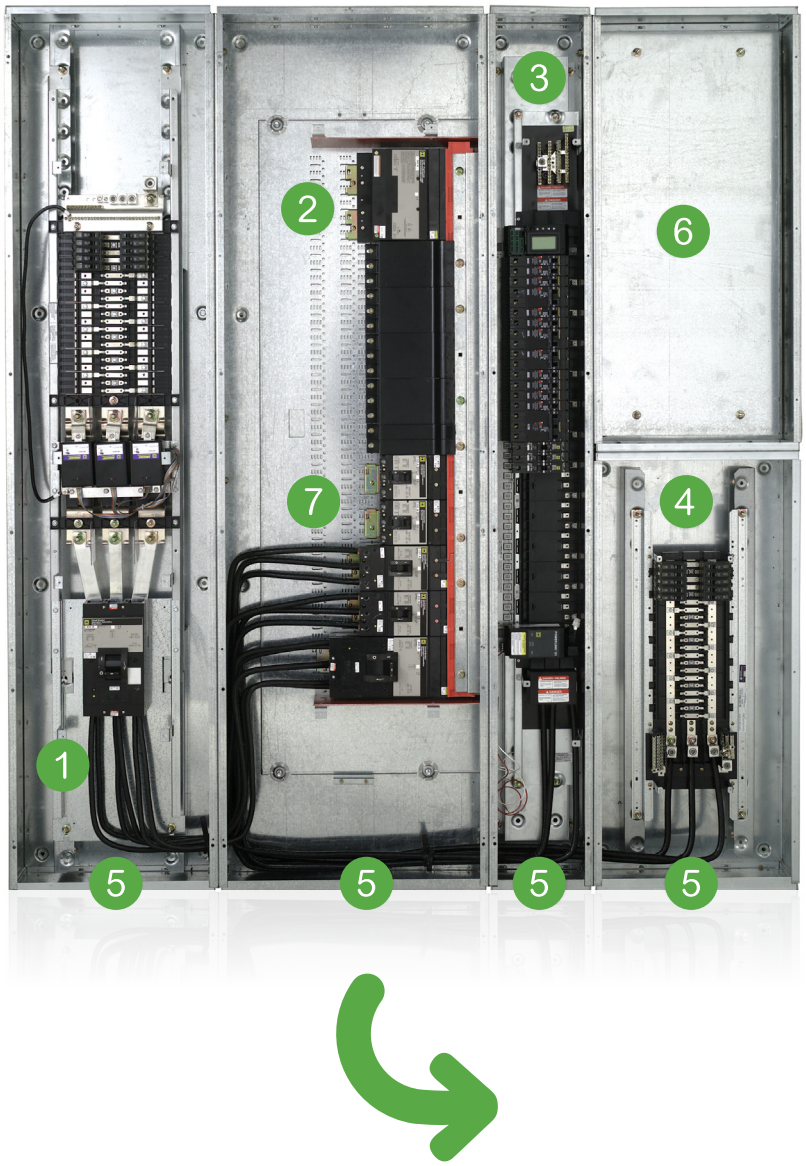
– NEC requirements for wire space

– UL 67 – Panelboards

– UL 50 – Enclosures for Electrical Equipment

- MPS sections can be bolted together at the factory, reducing labor and installation time at the job site
- Close coupling panels eliminate the need for interconnecting conduits and box connectors, and shorten feeder cable runs
- Large 4 in. knockouts with edge guards are provided between sections, allowing you to quickly and easily route cables from one shipping split to another
- Lighting and appliance panelboard enclosure depth has increased from 5¾ in. to 9½ in. to provide additional space for installing branch conductors
- Panelboard interiors can be configured three ways: stacked, column width, or full height to optimize wall space

40%
Electrical room space savings



1 **NQ 400 A main breaker with integral surge protection**
Broad panelboard offering with configurations suitable for most applications.

2 **Single-row I-Line**
An 800 A max interior that is only 26 in. wide saves valuable space. Double-row I-Line also available.

3 **NF and NQOB column width interiors**
Lighting panelboard interiors are available in a 10 in. wide section, which saves wall and floor space. NF Powerlink lighting control systems are also available in this construction.

4 **NF or NQ lighting panels**
Select panelboard interiors can be stacked to save wall and floor space.

5 **Bottom box cutouts**
Cutouts in the bottom endwall of each section permit conduit to be stubbed up inside the enclosure, eliminating the need to cut conduit openings and saving installation time.

6 **Equipment space**
Space where lighting contactors can be factory installed and prewired, reducing labor and significantly reducing installation time.

7 **Feeder breakers in the power panel**
Feeder breakers can be factory wired to each lighting panelboard in the lineup, reducing labor and material cost.

Learn how to maximize your facility's space. Email powersolutions@schneider-electric.com

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SQUARE D™
by Schneider Electric

Saving space for saving lives

Maximize patient care and facility space.

Square D™ Integrated Equipment saves up to 40% in electrical room space, so you can increase healthcare facility square footage.

SQUARE D™
by Schneider Electric

An efficient, easy, and cost-effective solution

With medical equipment, supplies, staff, and patients to accommodate, maximizing healthcare facility space can be challenging. Plus it has a direct effect on the bottom line, since more room for patients equals more revenue.

Increase valuable floor space by decreasing the size of the electrical room. With stacked panelboards and transformers in a single enclosure, Square D by Schneider Electric™ Integrated Equipment saves time, space, and money.

The Integrated Equipment Advantage

Decreased electrical room size

=

Increase patient care space

Stick-build

Integrated Equipement

- > Saves 40% in electrical room wall space with smaller footprint.
- > Installs 80 – 90% faster, complete project ahead of schedule.
- > Lower installation and material costs.
- > Contributes LEED points, reduced materials.
- > Preconfigured according to your specifications, designs can be standardized for multiple locations.

For more information, email
powersolutions@schneider-electric.com

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July 2015

SQUARE D™ by Schneider Electric

Saving space for saving lives.

Integrated Power Center 2 (IPC2) for Healthcare

Space Savings

Panels are stacked above the transformer, reducing up to 40% of the overall footprint and saving valuable floor and wall space. Reduce the size of your electrical room and increase space for more important uses such as patient care and medical equipment.

Labor Savings

Panels and transformers are factory mounted, assembled, and cabled in a single enclosure, which means installation can take hours rather than days. It also minimizes contractor labor risk due to reduction in installation hours.

Reduce Material Cost and Handling

The solution requires fewer items to receive, inventory, retrieve, and install. Wiring between the internal components of the section is done at the factory, saving labor and eliminating conduit, wire, and fittings.

Meets/Complies with NEC and UL

The IPC2 transformer combo is designed and manufactured to comply with National Electrical Code® (NEC) and UL requirements. Electrical distribution equipment is factory assembled and tested in a controlled factory environment, ensuring the highest quality standards are met.

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SQUARE D™
by Schneider Electric

Specifications

Standard Construction

- UL 891 - deadfront switchboard
- Seismically qualified to meet IBC and ASCE 7 requirements
- Each panel has individual outer door with breaker cover door
- Front and rear-aligned sections, available in multiple widths
- Top and bottom conduit entry/exit spaces available
- Powerlink™ lighting control solutions
- PowerLogic™ power monitoring and control

Enclosure Options

- NEMA 1 indoor
- NEMA 1 with driphood
- NEMA 3R rainproof

Panelboards

- NF 480 V panel
  - 125 A max back-fed main breaker
  - 125 A max main lug only
  - 18 circuits total
- NQ 240 V panel
  - 125 A max back-fed main breaker
  - 18 circuits total

Transformer

- 15 – 45 kva three phase 150 °C rise
- 15 – 50 kva single phase 150 °C rise
- Energy efficient

Custom space saving design + Labor savings + Lower material cost = Innovative integrated solutions

Learn how to maximize space at your facility:
Email powersolutions@schneider-electric.com

Scan the QR code for a healthcare solutions video!

Schneider Electric

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SQUARE D™ by Schneider Electric

Schneider Electric Case Study

Children's Hospital

Orange, California

Hospital increases revenue-generating patient care space with Square D Integrated Equipment

By Schneider Electric

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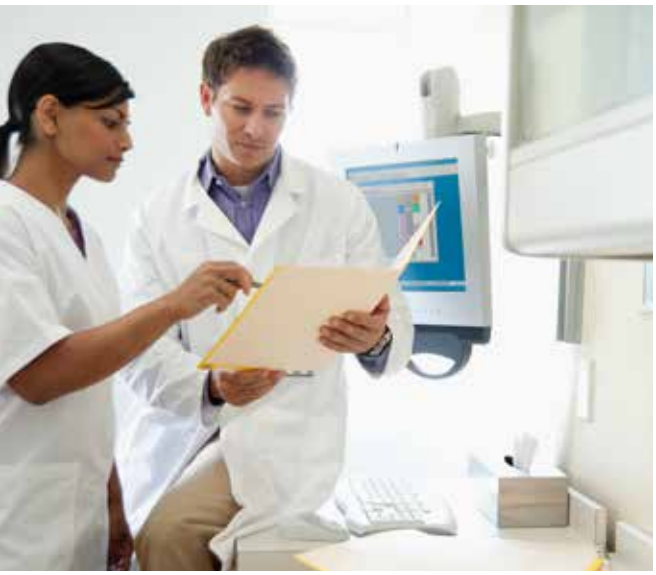
SQUARE D™
by Schneider Electric



The Challenge

Nothing is more important at a hospital than patient care. Maximizing the amount of hospital space focused on patient treatment and care is crucial. A children's hospital in California discovered that it could increase its revenue-generating patient care areas by decreasing the size of its electrical rooms. To do this, the hospital needed to find a solution that provided all of its electrical power requirements but in a significantly reduced footprint.

The Solution

Bergelectric Corp., a trusted contractor in the Greater Los Angeles Region for over 68 years partnered with the hospital to find the right solution. By installing Square D™ by Schneider Electric™ Integrated Equipment, the contractor was able to deliver significant space savings while still providing reliable power that could be counted on. Sixteen panels and four transformers were put in each electrical room, taking up less than half the space of conventional, stick-built gear.

By using a mix of Integrated Power Center (IPC) and Integrated Power Center 2 (IPC2) products, Bergelectric and the hospital were able to reduce the overall footprint of the electrical room by 50%, leaving plenty of room for easy maintenance access. Factory assembled, prewired, and tested, each IPC2 compact unit takes up 3.5 feet of space compared to the traditional 7 feet required by conventional gear. The additional panels for each room fit in the IPC unit, which is also compact in width and a mere 10 inches in depth. Plus, the equipment installs up to 90 percent faster than traditional stick-built.

The use of Square D Integrated Equipment allowed the hospital to increase its patient-focused space while still meeting mission-critical electrical needs. With the use of single-enclosure solutions, the electrical room was clean and spacious, with room for facility maintenance and future electrical system expansion.

Hans Erickson, Division Manager, Bergelectric Corp. commented, "These were some of the cleanest electrical rooms we have ever installed. Being able to fit that much gear in a compact room and still feel spacious was a huge value to the hospital."

"These were some of the cleanest electrical rooms we have ever installed."

— Hans Erickson, Division Manager, Bergelectric Corp.

Square D offers a complete lineup of integrated solutions that are made in the United States and can be used in any electrical room. They offer the ideal solution for space constraints. Shipping to the jobsite as one unit, this integrated equipment reduces labor, shortens the construction cycle, and removes the need to inventory parts and pieces like traditional stick-built equipment — creating electrical rooms that are clean and compact while maximizing revenue-generating space.

To learn how to maximize your facility's space, email powersolutions@schneider-electric.com.

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