

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!



Safeguard your equipment, your store, and your revenue.



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

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%

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.

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.





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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