

**Greater Versatility
with Less Downtime**



Appleton™ ATEX/IECEX Plexpower™
Distribution Panelboards
Product Overview Brochure



Demanding environments create challenges—and opportunities

Manufacturing and processing facilities, and the environments they inhabit, continually challenge both man and machine. Powering equipment throughout a hazardous location facility, requires panelboards that are designed to optimize production in demanding environments. The combination of hazardous locations and ignition sources, such as circuit breakers, switches and motor starters, requires highly engineered protection that prevents a single spark or hot spot from placing facilities and personnel in danger. With the presence of flammable gases and vapors, hazardous locations around the world demand electrical products that are engineered to provide proper protection across your facility without incident.

Need for the latest technologies. Your peers and customers are considering what's next—requiring you to invest in advanced technologies that can improve your performance and differentiate your business.



Need for truly expert partners. Your business is different from other manufacturers, requiring relationships with leading suppliers who have technical engineering knowledge and a true dedication to partnership.



Need for more than products—needing solutions for your applications. Your role requires critical decision making around the right components to purchase, but can also benefit from services that make your job easier.





Products engineered and certified to deliver unparalleled results for any electrical job, indoors or outdoors.

An Innovative Way to Protect Breakers in Hazardous Locations



The Appleton™ PlexPower™ panelboards by Emerson, are engineered to meet your precise requirements today. Easily upgradeable to handle additional capacity tomorrow.

Our innovative breaker enclosure design provides flameproof protection for Zone 1-2 and 21-22 locations using standard off-the-shelf circuit breakers. Breakers can be easily replaced, upgraded or added in the field with no bolted cover to remove, no need for sealing or rewiring and no danger of compromising flamepath integrity. A true MCCB main breaker eliminates the need for a disconnect and fuse replacements.

These panelboards also deliver unprecedented design flexibility, featuring a modular enclosure and the capacity to handle a main breaker up to 250 Amps and branch breakers up to 63 Amps. With six standard configurations and limitless custom configurations, PlexPower accommodates virtually any application, while its modular design easily adapts as your power distribution needs change and grow.

There's never been a simpler, more versatile way to protect lighting, power and heat trace circuits in wet, weather exposed, corrosive or hazardous locations. Appleton PlexPower Panelboards– the new innovation in panelboard simplicity, only from Emerson.



Easier Installation

- Lighter weight enclosure
- No need for special handling equipment
- No need to install additional seals such as barrier glands, Teck connectors or conduit seals



Easier Operation

- Main breaker (MCCB) provides short circuit and overload protection with external actuation for quick reset.
- Weatherproof windows allow external operation of branch breakers, with no need to open the enclosure.



Easier Upgrades

- Add circuits and increase breaker capacity using affordable off-the-shelf breakers
- Modular design allows you to expand or reconfigure the panel



Easy Maintenance

- Use infrared scanning to inspect breakers without powering down the panelboard
- Minimize downtime and production loss during routine inspection
- Replace breakers by opening individual housings with standard hand tools



Appleton PlexPower Panelboards are quicker and easier to install, operate, upgrade and maintain – delivering substantial savings compared to the total ownership costs of a traditional cast and bolted panelboard.

Lightweight Installation and Modular Configuration

Only Appleton PlexPower panelboards feature circuit breaker housings with a flameproof labyrinth joint, eliminating the need for expensive epoxy sealed breakers that are difficult to source and stock. PlexPower panelboards are easy to configure and upgrade as needed, with modular components that can be coupled together to suit your footprint and branch circuit requirements.

- External actuation of main breaker – simplifies disconnect while maintaining enclosure integrity
- External actuation of branch breakers through a weatherproof window – enables simple operation of branch circuits
- Accepts multiple lockouts – helps ensure workplace safety
- Tough polyester or stainless steel construction – provides a lifetime of durable, corrosion resistant service

Designed To Meet All Your Application Requirements – Without Compromise

Appleton PlexPower panelboards provide reliable flameproof protection of lighting, heat trace and power circuits in Zone 1 – 2 and 21 – 22 environments. Indoors or outdoors, in weather exposed and corrosive environments, PlexPower panelboards are the ideal electrical distribution solution for every part of your facility.

Engineered To Adhere and Exceed Industry Standards

Standard:

- Zone 1 – 2 and 21 – 22
-  II2GD
- EPL Gb Db
- Ex db eb IIB+H₂
- Ex tb IIIC
- IP66/IK10

Optional:

- Zone 1 – 2 and 21 – 22
-  II2GD
- EPL Gb Db
- Ex db eb IIC
- Ex tb IIIC
- IP66/IK10

Flexible Installation

Bus Bar

50 kAIC hard drawn copper bus bar provides robust, reliable and efficient electrical connections in a compact space

Factory Wired Line and Load Terminations

Sized to maximum capacity of 6mm² for use with branch breakers up to 63 Amps with no rewiring required

Incoming Main Breaker (MCCB) or Disconnect

2-pole, 3-pole or 4-pole main breaker, from 40 through 250 Amps.

Breaker Flexibility

Standard, off-the-shelf branch breakers are available in 1-, 2-, 3- and 4-pole and 1-pole plus neutral; available with multiple sensitivity GFI and with option of auxiliary contacts

Chassis Frame

Hot dip galvanized steel frame and adjustable mounting lugs for easy mounting

Modular Design

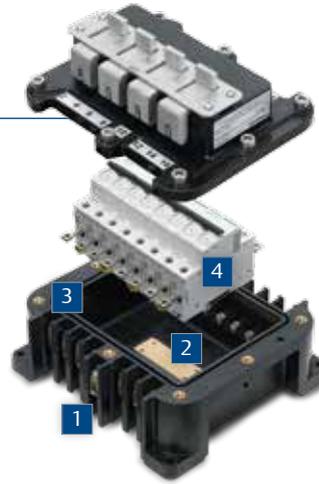
Enclosures offer vertical and horizontal coupling options for practically unlimited circuit configurations



Simple Operation and Maintenance



Branch Breaker



Main Breaker



External Main Breaker Actuation

External actuation of main breaker allows for simple operation; provided with multiple lockouts for improved security



Weatherproof Window

External actuation of branch breakers through a weatherproof window simplifies operation

1. Rugged Termination

Each circuit breaker housing connects to the panelboard through Increased Safety line and load terminations for unyielding performance through years of heavy vibrations and shocks

2. Venting Plate

Unique design of breaker housing allows safe heat dissipation, enabling breakers to maintain their rated amperage while eliminating nuisance tripping

3. Flameproof Enclosure Housing

Labyrinth joint construction maintains hazardous location rating while allowing easy disassembly for servicing breakers

4. Field Replaceable Breaker

Standard, off-the-shelf circuit breakers are easy to obtain and reduce inventory costs and downtime



Visit www.appletonelec.com or contact your local Appleton representative to configure your PlexPower Panelboards.

Modular level protection that is easy to install, maintain, and operate.



Appleton is the cornerstone brand of Emerson's Electrical Apparatus and Lighting business; trusted worldwide to make electrical installations safer, more productive and more reliable.

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