

Dispenser Wiring Disconnect™ Solution

Emergency Stop Controls & Service Disconnects for Dispenser Low Voltage Circuits

The National Electric Code® requires that all circuits, **including power, data, communication and video circuits**, connected to fueling dispensers must have a means to be disconnected.

Power Integrity's Dispenser Wiring Disconnect™ Solution (DDS) makes fueling sites safer for employees and customers.



DDS-12DT4GE
Primary Disconnect



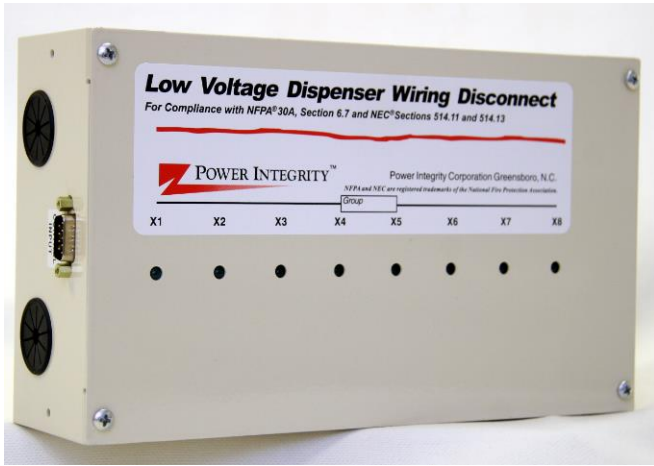
DDS Primary Disconnect – Key Features

- Disconnects dispenser data and card reader circuits with either:
 - Two 2-wire circuits per dispenser
 - One Ethernet circuit per dispenser
- Data circuit protection available for current loop and RS-485 circuits
- UL1238 listed – Standard for Control Equipment for Use with Flammable Liquid Dispensing Devices
- For compliance with NEC® 514.11 and NFPA® 30A Section 6.7 requirements for Emergency Disconnects at Motor Fuel Dispensing Facilities
 - Controlled by E-Stop System
- For compliance with NEC® 514.13 requirements for Maintenance Disconnects at Motor Fuel Dispensing Facilities
 - Switches to disconnect individual dispenser circuits for servicing
- Lockable cover for lockout/tagout requirements
- Compact design saves valuable wall space
- Simplifies installation as DDS's are located near circuits they disconnect
- Modular to fit the low voltage capabilities of your dispensers

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DDS-8DB4C
Secondary Disconnect for Intercom
(4 conductors)

DDS Intercom Disconnect – Key Features

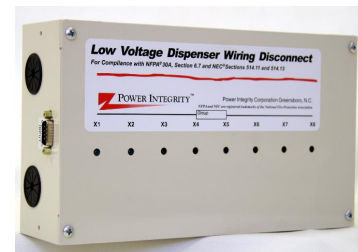
- Disconnects an additional four or eight conductors per dispenser
 - One speaker & one call button (four)
 - Two speakers & two call buttons (eight)
- Status indicator lights
- DB-9 cables for connection to primary disconnect included
 - 6 feet and 25 feet
- Separate unit allows it to be installed near circuits being disconnected
- UL1238 listed
- For compliance with NEC® 514.11, NEC® 514.13 and NFPA® 30A Section 6.7 requirements
- For use with a Dispenser Wiring Disconnect (DDS) solution

DDS Video/Media Disconnect – Key Features

- Disconnects dispenser video/media circuits
 - Up to two Ethernet circuits or two 2-wire circuits per dispenser
- Status indicator lights
- DB-9 cables for connection to primary disconnect included
 - 6 feet and 25 feet
- Separate unit allows it to be installed near circuits being disconnected
 - Ethernet version also available in a rack mounted design (shown)
- UL1238 listed
- For compliance with NEC® 514.11, NEC® 514.13 and NFPA® 30A Section 6.7 requirements
- For use with a Dispenser Wiring Disconnect



DDS-ERS8D
Secondary Disconnect for Video
(One Ethernet circuit)



DDS-8DB4C
Secondary Disconnect for Video
(One 2-wire circuit)

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Why the Need for Power Integrity's DDS Dispenser Wiring Disconnect?

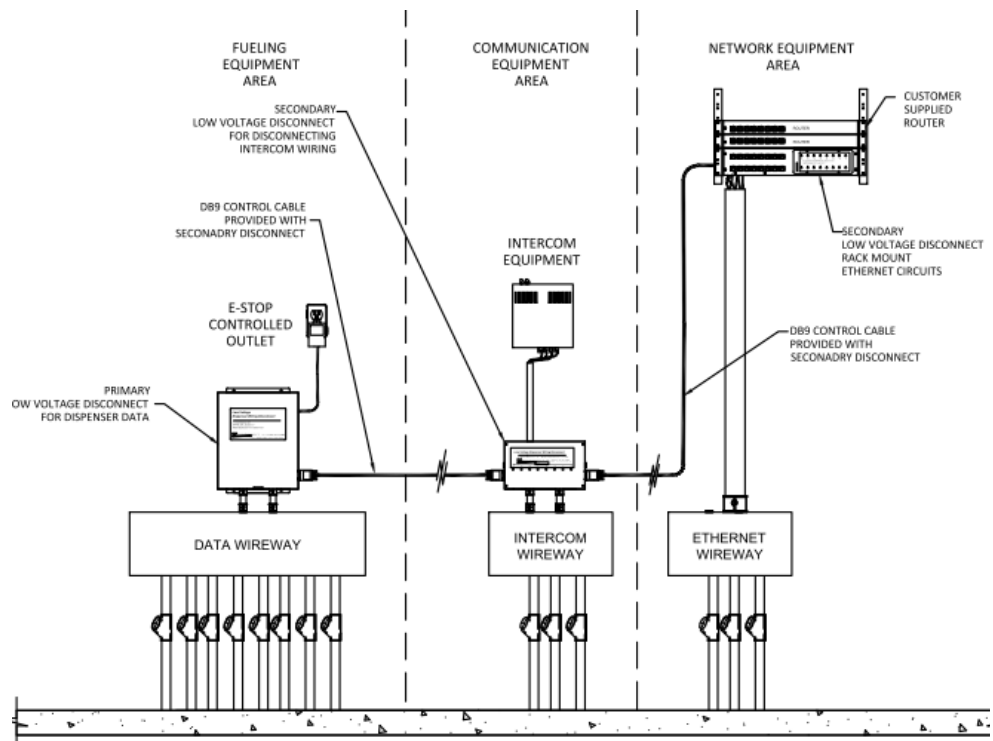
- Vapors from flammable and combustible liquid will ignite when heated to the correct temperature at the correct volatile mixture
- This type of ignition can occur from circuits that most users of electricity consider "safe," such as Class 2 power-limited circuits
 - Class 2 circuits are safe from an electrical shock and fire perspective
 - Class 2 circuits are still capable of igniting the vapors in the environment of a Class 1 location, such as those in fuel dispensing areas
- NEC requires that all circuits to the dispensing equipment in fueling facilities, including power, control and signal circuits, must have a means to be disconnected
 - 514.11 applies to emergency disconnecting situations
 - 514.13 applies to maintenance disconnecting situations

Typical Installation

The Dispenser Wiring Disconnect™ (DDS) has been designed to be installed in-line with the dispenser data wiring and adjacent to the site controls.

The system provides individual service disconnect switches. Each switch disconnects both the corresponding dispenser data and credit card data circuits.

When used in conjunction with a Power Integrity AC power system such as the Petroleum Control System (PCS), Custom Panel Solution (CPS) or Power Distribution System (PDS), all equipment requirements for installing the petroleum dispensing system have been addressed, making it a simple task for the installer to meet the necessary code requirements.



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DDS Individual Units

Dispenser Wiring Disconnect™ Solution – Primary Disconnects

Disconnects for Dispenser Data and Card Reader

DDS-8DM4GE	(8) Gilbarco dispensers or (8) Wayne dispensers with third party controller
DDS-8DM4GPE	(8) Gilbarco dispensers – includes dispenser data protection* for current loop
DDS-8DM4WPE	(8) Wayne dispensers – includes dispenser data protection* for current loop & RS-485
DDS-8DMFWEX	(8) Wayne dispensers with Fusion controller – includes (2) Fusion system adapters
DDS-12DT4GE	(12) Gilbarco dispensers or (12) Wayne dispensers with third party controller
DDS-12DT4GPE	(12) Gilbarco dispensers – includes dispenser data protection* for current loop
DDS-12DT4WPE	(12) Wayne dispensers – includes dispenser data protection* for current loop & RS-485
DDS-16DMFWEX	(16) Wayne dispensers with Fusion controller – includes (2) Fusion system adapters
DDS-EXP8D	(8) Wayne dispensers with IDPOS (1) Ethernet circuit per dispenser – Wall Mounted
DDS-EXP88D	(8) Wayne dispensers with IDPOS (2) Ethernet circuits per dispenser – Wall Mounted
DDS-EXP16D	(16) Wayne dispensers with IDPOS (1) Ethernet circuit per dispenser – Wall Mounted
DDS-ERP8D	(8) Wayne dispensers with IDPOS (1) Ethernet circuit per dispenser – Rack Mounted
DDS-ERP88D	(8) Wayne dispensers with IDPOS (2) Ethernet circuits per dispenser – Rack Mounted
DDS-ERP16D	(16) Wayne dispensers with IDPOS (1) Ethernet circuit per dispenser – Rack Mounted

Dispenser Wiring Disconnect™ Solutions – Secondary Disconnects

Disconnects for Intercom and Media Circuits (2-wire circuits)

DDS-8DB4C	(8) dispensers – (1) call button, (1) speaker per dispenser
DDS-16DA4CE	(16) dispensers - ex. (1) call button, (1) speaker per dispenser
DDS-8DA44CE	(8) dispensers – (2) call buttons, (2) speakers per dispenser

Disconnects for Ethernet Circuits (Cat5/5e/6 circuits)

DDS-EWS8D	(8) dispensers – (1) Ethernet circuit per dispenser; wall mounted
DDS-EWS16D	(16) dispensers – (1) Ethernet circuit per dispenser; wall mounted
DDS-ERS8D	(8) dispensers – (1) Ethernet circuit per dispenser; rack mounted
DDS-ERS88D	(8) dispensers – (2) Ethernet circuits per dispenser; rack mounted
DDS-ERS16D	(16) dispensers – (1) Ethernet circuit per dispenser; rack mounted

** Disclaimer: Power Integrity surge suppressors aid in reducing damage from electrical anomalies. NO surge suppression device can protect equipment against direct lightning strikes. All equipment must be installed using proper wiring and proper grounding.*

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PS-1163 Rev E

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