DOVER
FUELING SOLUTIONS

Control Where You Need it Most

VERSIONS
FC=5.3.3
Web=5.3.3
Console=5.3.3

DFS Fusion®
automation server version 3

Visit Website

Dispensers

Consumer Experience

Site Efficiency & Connectivity

RETAIL SYSTEMS & PAYMENT

Clean Energy

Fleet Solutions

Retail Systems & Payment

The Only Solution You Need

The Dover Fueling Solutions® (DFS) Fusion® forecourt system allows your dispensers, tank gauging systems, price signs and back-end reporting to more seamlessly interface with your point-of-sale (POS) and Enterprise Resource Planning (ERP) systems. Packed with advanced software technology, it's one small, but powerfully upgraded solution, that can replace a variety of on-site devices, such as a forecourt controller, an automatic tank gauge (ATG) system, petroleum-retail console, interface and distribution boxes, and third-party proprietary controllers. Additionally, this next generation forecourt system opens up the universe of IoT, allowing you to drive change forward with the DFS DX™ connected solutions platform — a solution which harnesses cloud and advanced data analytics to deliver intelligent fueling and retail solutions and services for your business.
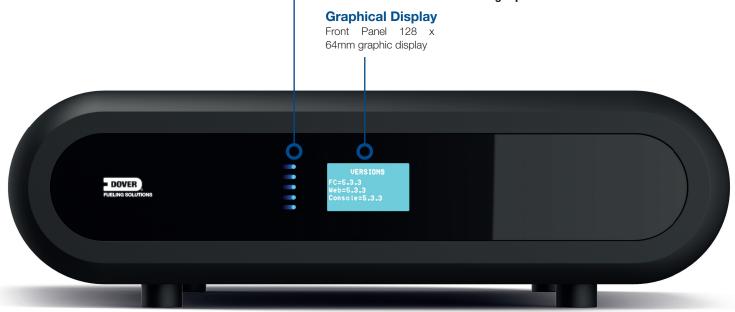
DFS *Worldwide* Brands

Hardware Designed for More Power

Designed and packed with performance-enhancing technology, the Fusion® forecourt system features faster speeds, better responsiveness and expanded connectivity options. It provides the control you expect from DFS with the easier access and serviceability you've asked us for.

Need to seamlessly connect your existing retail POS system with your forecourt? **No problem.** We use industry standards for integration, such as IFSF FDC, to ensure smooth and secure connection.

Want real-time visibility into information that will help you make smarter business decisions? **The Fusion® forecourt system can do that too, anytime and from anywhere.**

Need to control your site from an easy-to-use console application? **You've come to the right place.**

Status Lights
5 status LED lights: power, HDD activity, 3 deinable (GPIO)

Graphical Display
Front Panel 128 x 64mm graphic display

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CONTROL over costs

The Fusion® forecourt system gives you the control you need to help reduce deployment and implementation costs. By giving you better visibility over many of your current devices with one single tool, it helps to reduce maintenance costs so there are fewer potential points of failure. You simply plug in the Fusion® forecourt controller, hook up your devices, and within minutes, you're connected and in control.

CONTROL over data

With the Fusion® forecourt system's in-depth web-reporting capabilities, you can get better visibility over sales, operations, inventory and equipment, so you're better equipped to make smart business decisions. And its built-in remote accessibility means that you can always find the information you need - no matter where you are or what time it is.

CONTROL over your future

The Fusion® forecourt system is designed to easily expand with your growing business needs. The system is flexible and upgradeable and as your business needs continue to evolve, you can readily add software and hardware to keep up. The system comes IoT ready, which means it can provide easy access to DFS DX™ connected solutions platform to give your forcourt a revolutionary digital transformation.

CONTROL over complexity

By interfacing with a large number of forecourt devices, as well as POS systems from multiple vendors, the Fusion® forecourt system gives you one single point of control. This flexibility enables all of your key systems to speak the same language and provides you with a single interface to:

- access fuel dispensers from multiple vendors
- gain visibility over tank management systems
- update price signs
- connect with POS systems
- communicate with ERP and fleet management systems

CONTROL over clutter

The Fusion® forecourt system provides all of this control in a single, streamlined solution configured specifically for the rugged demands of a petroleum-retail environment. With its solid-state construction, the Fusion® forecourt system is built to withstand extreme temperatures and dust. Packed with advanced technology, it's also built to handle your complete forecourt needs.

CONTROL, centralized

The enterprise-enabled remote diagnostic software can be included in your Fusion® forecourt system warranty. It means you can get:

- 24/7 remote support for dispensers, systems, and other technology
- device monitoring and remote problem resolution
- escalation notifications
- increased security for your forecourt and network
- data management
- access to Fusion® Head Office

DFS Fusion® automation server version 3

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The Latest Generation Fusion Forecourt System

Dispensers

Media

Cloud Solutions

Consoles

Payment

Price Signs

Point-of-Sale

The latest generation of the Fusion® forecourt system is configured for easier accessibility and serviceability. With 5 status LED lights, running and managing the system becomes easiler and more straightforward. The front-mounted display allows you to see alerts and diagnostic information clearly. Add in the fact that there are no moving parts behind the face, and you've got a robust and hardened solution to address your current needs and adapt as those demands evolve.

But perhaps the most compelling benefit of a Fusion® forecourt system is that it's connected to the experience, expertise and support of DFS. Your Fusion® forecourt system can be supported with our enterprise remote-diagnostics software, which monitors forecourt dispenser equipment around the clock and helps proactively identify and resolve problems as they arise.

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One Platform for All Your Needs, with Dedicated ATG Application

The new generation Fusion® forecourt system is available with extensive features included in the base configuration, which address the needs of most site environments. However, as your business grows and evolves, you may want to enhance the functionality of your Fusion® system with additional features that can be easily added as optional software modules.

DFS delivers a complete, integrated ATG and forecourt solution that also offers great flexibility. It provides a variety of hardware and software options that can be included from the start, or retrofitted remotely to meet your changing needs. It's also designed to integrate seamlessly with the DFS Fusion® forecourt system for full visibility into all aspects of operations.

- One single point of control for hardware and software applications

- In-depth reporting capabilities providing enterprise-level visibility

- Connectivity from anywhere, at any time, through secure remote access

- Remote management for unattended hours

- Interactive access for remote training, instruction and troubleshooting

- Enables remote accessibility and upgradeability from anywhere globally

Note: Option not available in North America.

DFS Fusion® automation server version 3

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Features

BASE

- Interface with fuel dispensers, ATGs and point-of-sale (POS) systems from multiple vendors
- Remote connection
- Reporting package interface with fuel dispensers, ATGs, price signs, car-wash and point-of-sale (POS) systems from multiple vendors
- Access to the DFS DX™ Connection Solutions Platform
- Access to Wayne Fusion® Head Office

OPTIONAL

- Fuel console application
- DFS Fusion® Prizma*
- Fleet capabilities
- Integrated ATGs, media and local fleet management*
- ATG application *
- AVI (automatic vehicle identification *
- Media integration *
- PLLD *
- Interface with 3rd party HOS

* Subjected to regional availability

Technical Specifications

Hardware	Feature	Impact
Processor	Quad core, 64-bit, 2MB L2 cache, 2.42GHz	4 times faster for increased application and transaction speed*
Memory	4GB Max	Double memory capacity for increased multitasking of forecourt devices*
FIBs (Forecourt Interface Boards)	2 Max	Can be expanded to additional 6 FIBs with use of Fusion® I/O box**
Temperature	0ºC to 40ºC (32ºF to 104ºF)	Meets extended cold and heat requirements for placement in a variety of locations globally
LAN	2 Ethernet	Segment LAN for secure payment and easier PCI compliance*
Power Button	Rear-Mounted	Easy access for convenient system operation
Serial I/O	4 USB, 4 UART	Optional powered USB hub available for direct connection of POS peripherals
Keyboard, Video, and Mouse I/O	Standard KVM	Allows for cashier and customer-facing displays to be connected simultaneously for more efficiency
Short Term Power Loss Prevention	Super Capacitor	Ensures secure system shut-down in case of power loss
Status LCD	Front-Mounted	Shows system status messages for better transparency
Operating System	Microsoft® Windows 10 IoT Enterprise LTSC 2021 (Long Term Servicing Channel)	

*Based on the second-generation Fusion forecourt controller.

**Depending on dispenser protocol; up to 32 fueling points on a standard fueling site in the U.S. on Fusion mainbox (can be expanded with Fusion I/O)

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Wayne

FUELING SYSTEMS

Data Sheet / Wayne Fusion® automation server V3

Control Where you Need it Most

Hardware Platform

CPU
- Intel® Celeron® J1900 (Quad core, 64-bit, 2MB L2 cache, 2.42GHz)

Data Storage
- 128GB mSATA drive

Battery Backup
- Internal super-capacitor for controlled shut-down in power fail situations
- Internal temperature monitor
- Internal voltage monitor

Power
- 24V AC 70W external power brick
- Rear mounted recessed power switch

Temperature Range
- Standard Operating Temperature: 0°C to 40°C

Chassis and Cover
- Aluminum chassis and cover

Memory
- 4GB DDR3L 1333 MHz SO-DIMM
- 100% Solid State (No moving parts)

Operating System
- Microsoft® Windows 10 IoT Enterprise LTSC 2021 (Long Term Servicing Channel)

Connectivity
- 4 x USB (3x USB2.0 + 1x USB3.0)
- 4 x UART (1x RS232/RS422/RS485 + 3xRS232; +5V or +12VDC)
- HDMI and VGA display connector (no speaker)
- 2 x 10/100 Ethernet port
- 2 x 24VDC out connector
- 2 x slots for FIB (Forecourt Interface Boards)
- Optional powered USB-hub with 2x USB3.0 + 1x PUSB 24V + 2x PUSB 12V

Display
- Front mounted diagnostic/info display

Physical Dimensions
- 335mm (W) x 330mm (D) x 98mm (H)

Humidity Range
- 5-95% relative humidity

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FUELING SYSTEMS

Data Sheet / Wayne Fusion® automation server V3

Control Where you Need it Most

Forecourt Interface

FIB-UCL485 (P/N WU017553-0001)
- 2 ports CL supporting half-duplex communication over a 10 mA, 20 mA, 25 mA, 35 mA, or 45 mA current loop – 4 dispensers/8 fueling positions per port
- 2 ports RS-485 supporting 2, 3 or 4-wire serial circuits – 4 dispensers/8 fueling positions per port
- 2 x 8-pin for CL + 2 x 2-pin Phoenix connector

FIB-UCL485UL (P/N WU017553-0002)
- 2 ports CL supporting half-duplex communication over a 10 mA, 20 mA, 25 mA, 35 mA, or 45 mA current loop – 4 dispensers/8 fueling positions per port
- 2 ports RS-485 supporting 2, 3 or 4-wire serial circuits – 4 dispensers/8 fueling positions per port
- RJ45 connectors (for use with DSB-Data Safety Box)

FIB-NUP (P/N TOK-962500-001)
- 4 ports supporting:
    - Nuovo Pignone (1 fueling position per port)
    - Logitron (1 dispenser/2 fueling positions per port)
- 4 x 5-pin Phoenix connector

FIB-LON (P/N TOK-962135-001)
- 1 LON bus channel
- 4 ports supporting 1 dispenser/2 fueling position per port
- 4 x 3-pin Phoenix connector
- Supports IFSF or RAW LON communications

FIB-UDC (P/N WU018620-0001)
- 4 ports supporting 1 dispenser/2 fueling positions per port
- 4 x 4-pin Phoenix connectors
- Supports full-duplex communication using 10 mA / 20 mA current loop

FIB PEC (P/N (WU021189-0001)
- Connects dispensers using the PEC CL RETRON 80 protocol. A maximum of 4 dispensers (up to 8 fueling points) can be connected per FIB
- - 4 x CL ports (up to 4 devices/8 fueling positions) + 2x PUSB 12V

GRIB 1-Wire (P/N W7003377)
- 16 ports supporting 1x1-wire iButton tag reader per port
- 2 x 12-pin Phoneix connectors

GRIB KAPROT (P/N WU011713-0001)
- 4 ports supporting 1 dispenser / 1 fueling position per port
- 4 x 4-pin Phoenix connectors

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