DOVER
FUELING SOLUTIONS

A Force to be Reckoned with

DFS DMP
Magnetostrictive Probe (s)

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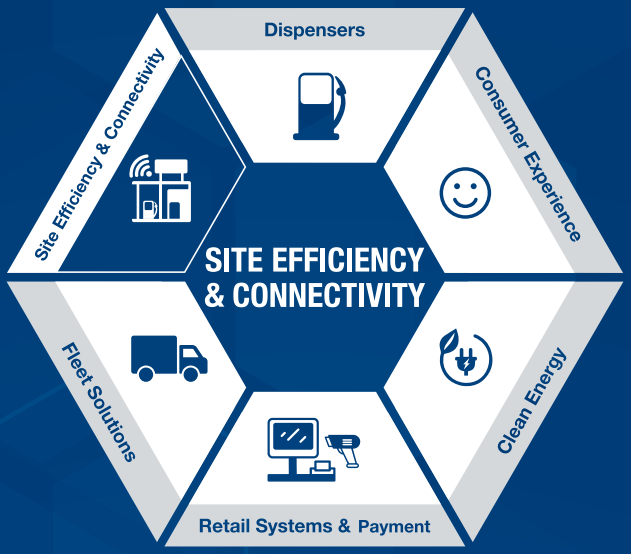

The Power is Yours

Thought things couldn't get any better? Think again. We've taken the best that Dover Fueling Solutions® (DFS) has to offer - and then some - giving birth to a revolutionary probe that knows no limits. The DFS DMP Magnetostrictive Probe(s) is a global solution, with the ability to monitor all fuel types and additives, including bio fuels and AdBlue®, whilst also supporting density, phase separation, leak detection and inventory management. You won't find another like it.

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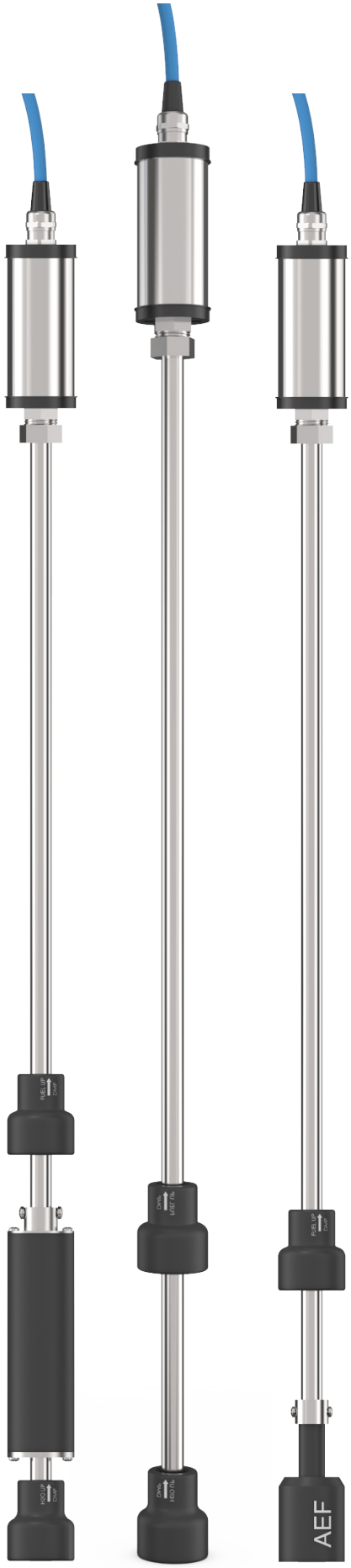

Precision Like You've Never Experienced

Using magnetostrictive technology, our probes provide continuous and highly accurate readings of liquids inside of the tank. By transmitting a high frequency electrical impulse that travels at the speed of sound, the advanced technology within the probes is able to measure the time elapsed between the initial sending of the signal and its return to the float, giving an unbeatably accurate fuel reading which is then relayed to the console on site or directly to the point-of-sale (POS). The DFS DMP probe is certified to meet or exceed the U.S. Environmental Protection Agency's performance standards for 0.1 gph (0.38 L/hr) annual volumetric tank tightness testing and 0.2 gph (0.76 L/hr) monthly product-level monitoring.

Wired Probes

The DFS DMP probe features standard stainless-steel construction, making it ideally suited for use with gasoline, diesel, ethanol and biodiesel. Offering standard RS485 interface with fast and reliable data transmission, or with "1-wire communication" option, compatible with our legacy ATG systems, our wired probes are suitable for both above and below ground tanks and are the product of choice for many retailers across the globe.

Density Float

The DFS DMP Probe is available to purchase with a density float, which is able to accurately measure the purity of fuel within tanks, detecting even the smallest of changes in product quality. This is particularly useful to sites requiring confirmation fuel composition, whether to detect the accuracy of blends or to confirm the product purchased is what was delivered into the tank. Speak to our team to order the wired probe with density float.

AEF Sensor

The Aqueous Ethanol Float (AEF) sensor provides early detection of unstable water levels inside of ethanol-blended fuel tanks, by indiciating potential phase separation. By measuring the changes in density, the AEF sensor provides an early warning of the presence of water, notifiying the retailer to stop selling fuel whilst investigations are carried out. Programmable thresholds and alarm settings also allow corrective actions to be deployed before phase separation occurs, and subsequent costly fuel loss.

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Standard Features

- Proven magnetostrictive technology
- Available in Inventory Only and Leak Detection versions (EPA standard)
- Available in gasoline/diesel/biofuels, LPG, AdBlue®/DEF and solvent versions
- Single float used for gasoline and diesel
- Stainless steel float for chemical enviornments
- Remote configuration of operation parameters
- Riser or adjustable connection to the tank
- Available from 500mm/20” to 5,000mm/200” measuring range
- Can be multi-dropped – up to three (3) probes connected on a single I .S. channel 1-wire barrier or up to eight (8) on a single I.S. RS485 barrier (ProGauge MagLink LX consoles)
- Optional density measurement float available
- Optional phase separation/AEF float available
- Supports diagnostic and maintenance functions
- Measuring Capabilities:
  - *Measures product and water level changes to a resolution of 0.01mm/0.0005”*
  - *Measures product temperature changes up to a resolution of 0.005°C (Leak Detection version) or 0.0625°C (Inventory Only version)*
  - *Accuracy over the entire probe length is ± 0.2mm/0.00787”*
  - *Density measurement accuracy up to ± 3 kg/m3 (option ± 1 kg/m3)*

Technical Specifications
Intrinsically safe
All stainless-steel construction, with IP68, enclosure (submersible up to 1.2m/4ft for 24 hours)
Easy installation in a 50mm/2” riser
Standard 1.5m/59” hydrocarbon resistant cable included with 22mm/7/8” circular connector
Power supply: 12 VDC
Operating temperature range: -40ºC/-40ºF to +60ºC/140ºF
RS485 or 1-wire (OPW FMS compatible) serial interfaces

Certifications

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