FuelsManager® Aviation GSE
Fuels Management for Airport Ground Support Equipment

Mobile Computing & Data Capture for GSE Fueling

At the majority of U.S. airports, service agents deal with the daily issues of fueling ground support equipment and vehicles from a fuel tanker. There may be little insight and accountability into how much fuel is distributed to each vehicle, which in turn causes problems with manual data entry, accounting for fuel and invoicing customers. Maintenance expenses may also be high, due to mis-fuels caused by overfills, or vehicles may have to be taken out of service due to the wrong fuel type being issued by an operator!

A Critical Solution for GSE Fueling Operations

FuelsManager® Aviation GSE now provides functionality to help automate, and report on the fueling process for each individual piece of ground support equipment with little or no additional effort from your fuel operator. Whether deployed as an individual GSE solution, or as part of an integrated, automated aviation fuels management system, it performs the following critical tasks:

- Prevents dispersal of the wrong fuel type and eliminates costly mis-fuel expenses

- Provides an efficient, timely, and accurate method for GSE fuels accounting, and web reporting

- Provides additional management insight for GSE fuels consumption trends, maintenance prediction, and fuel theft prevention

Reduce Costly Mis-fuel Expenses

Your operations will see a reduction in the maintenance expenses incurred from adding the wrong fuel or over fueling GSE. Fuel Agents use a handheld computer with built-in scanning and validation to ensure the correct fuel type is added and the correct amount of fuel is issued based on the individual equipment's fuel type and fuel tank capacity.

Benefits for Your Customers

FuelsManager Aviation GSE will help improve confidence in your services by providing your customers access to online fuel reports. Access to this live fuel data allows them to understand GSE usage patterns for equipment optimization and to understand fuel consumption trends for GSE maintenance prediction.
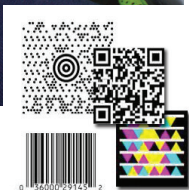
Reduce Problems Associated with Paper Tickets

Operational expenses will be reduced by removing the paper chase, manual data collection, or calculation errors associated with missing tickets. Using the handheld computer, fuel agents simply log in, select GSE fueling, scan the GSE to be serviced, and then begin fueling. The handheld captures all meter values, and records the fuel volumes against that piece of equipment.

Tracking individual GSE fuel transactions as they happen allows you to quickly, and more accurately invoice your customers, while clear reporting provides improved oversight to identify trends, and reduce the potential for fuel theft.

Measurement | Control | Automation | Enterprise | Integration | Support

FuelsManager® AVIATION

FuelsManager® Aviation GSE

Fuels Management for Airport Ground Support Equipment

▶ *The system identifies the individual GSE by scanning any type of barcode on the equipment. When the system is commissioned, you decide which type of barcode will be used. This can be a new barcode label placed on the equipment, or an existing barcode already located on the equipment.*

Handheld Computer Quick Specs

- Color TFT reflective display with touch screen - Clear viewing both indoors and out

- FM Approved to Class 1, Division 2 - Suitable for use in hazardous locations

- Ultra-rugged magnesium housing with bumper padding - Survives 6- foot drops to concrete

- IP67 - Certified to protect against water and dust

- Epoxy-coated, full alpha-numeric keypad - Data entry is a breeze

Mobile Computing and Wireless Communications

By utilizing electronic data collection, fuel agents are guided through a simple GSE fueling process. The handheld computer equipped with the optional scanner is used to identify the equipment to be serviced. The handheld computer stores fuel type and quantity information in active memory for each piece of equipment, which allows for instant fuel type verification. It then communicates to the truck-mounted 8232 Data Capture Unit (DCU) via Bluetooth® wireless technology, which controls the permissive to allow fueling to commence while limiting the maximum disbursed volume to the equipment's fuel tank capacity.

Improved Invoicing with Fuel Reconciliation on a Daily Basis

When wireless network or cellular communications are available, the handheld computer immediately sends all fueling transaction data to FuelsManager Aviation. The data is available to all FuelsManager Aviation Accounting users! Your back office personnel are then able to produce GSE-specific fueling reports on an hourly, daily, weekly or monthly basis. Data can also able be synced with the FuelsManager Aviation Enterprise for web reporting.

Online or Offline (Batch Mode) Operation

If real-time communications are not possible at a specific airport, the handheld computer is able to operate in an offline mode, whereby equipment information is downloaded at a WiFi hotspot to the unit at the start of the day or shift. Throughout the day, the unit is used for fueling operations, and collecting transaction data. At the end of the day or shift, all transactions are then uploaded at a WiFi hotspot and are available to the system.

Surviving Harsh Environments and User Abuse

The ruggedized handheld computer is designed to operate in harsh environments (IP67 classification) and survive user abuse, including 6-foot drops to concrete. It is also approved for use in hazardous areas of operation. The epoxy-coated keypad and touch screen make data entry and process selections a breeze, even with bulky gloves. In the event of misuse, comprehensive warranty programs are available for repair or replacement of damaged units.

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