

Datasheet



EasyFuelPlus RFID System

OVERVIEW

EasyFuelPlus is a wireless vehicle identification and data system that provides a high level of security, accuracy and efficiency in refuelling applications. The system is integrated with Transponder Technologies' Fuel Management Systems for applications such as mining, public transport, rail depots and freight companies.

The EasyFuelPlus system provides authentication through a 'nozzle-in-tank' solution. Fuel can only be dispensed to vehicles fitted with a passive RFID tag. EasyFuelPlus replaces Magnetic Cards and iButtons as well as eliminating errors from manual input of data.



HOW IT WORKS

Each refuelling nozzle is fitted with an RF Nozzle transmitter, and each vehicle has a passive tag fitted around the fuel inlet. When the RF nozzle is placed in the fuel inlet, the RF transmitter collects the passive tag ID and transmits the ID number to the controller, such as a TT3000. The controller checks the passive tag is valid and the nozzle is the correct grade. If both are correct, then the system will allow fuel to be dispensed. If the nozzle is removed from the tank, the dispenser will stop delivering fuel.

The VID option allows the addition of a small device onto the vehicle that captures odometer and hourmeter. This data is transmitted to the controller at refuelling time to provide fuel economy reports.

BENEFITS

- Reduced fraud by high level of security through identification of 'nozzle-in-tank'
- Automated collection of data reduces time spent refuelling
- Accurate collection of data increases benefit from vehicle performance analysis
- Low cost identification system for large fleets

FEATURES

- 'Nozzle-in-Tank' provides high level of fuel security
- Can be linked with an ob-board VID for providing odometer / hourmeter capture
- Suitable for light vehicle refuelling nozzles such as Elaflex ZVA
- Suitable for heavy vehicle refuelling nozzles such as Wiggins and Banlaw
- Seamless integration with Transponder Technologies' Fuel Management Systems
- Ensures correct fuel is dispensed into vehicles
- Multiple fuel inlets can be monitored on a single vehicle

For further details, please contact TT on 08 8355 9599 or email sales@ttonline.com.au



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System Options

Compatible Controllers	TT1000 / TT3000 / FC6000 Controllers
Number of RF Nozzles	Up to 8 per controller
Refuelling Scenarios	Light Vehicle and Heavy Vehicle
Linked Passive Tags	Up to 4 passive tags can be linked to each VID providing identification and control of up to 4 filling points per vehicle

Passive Tag Options

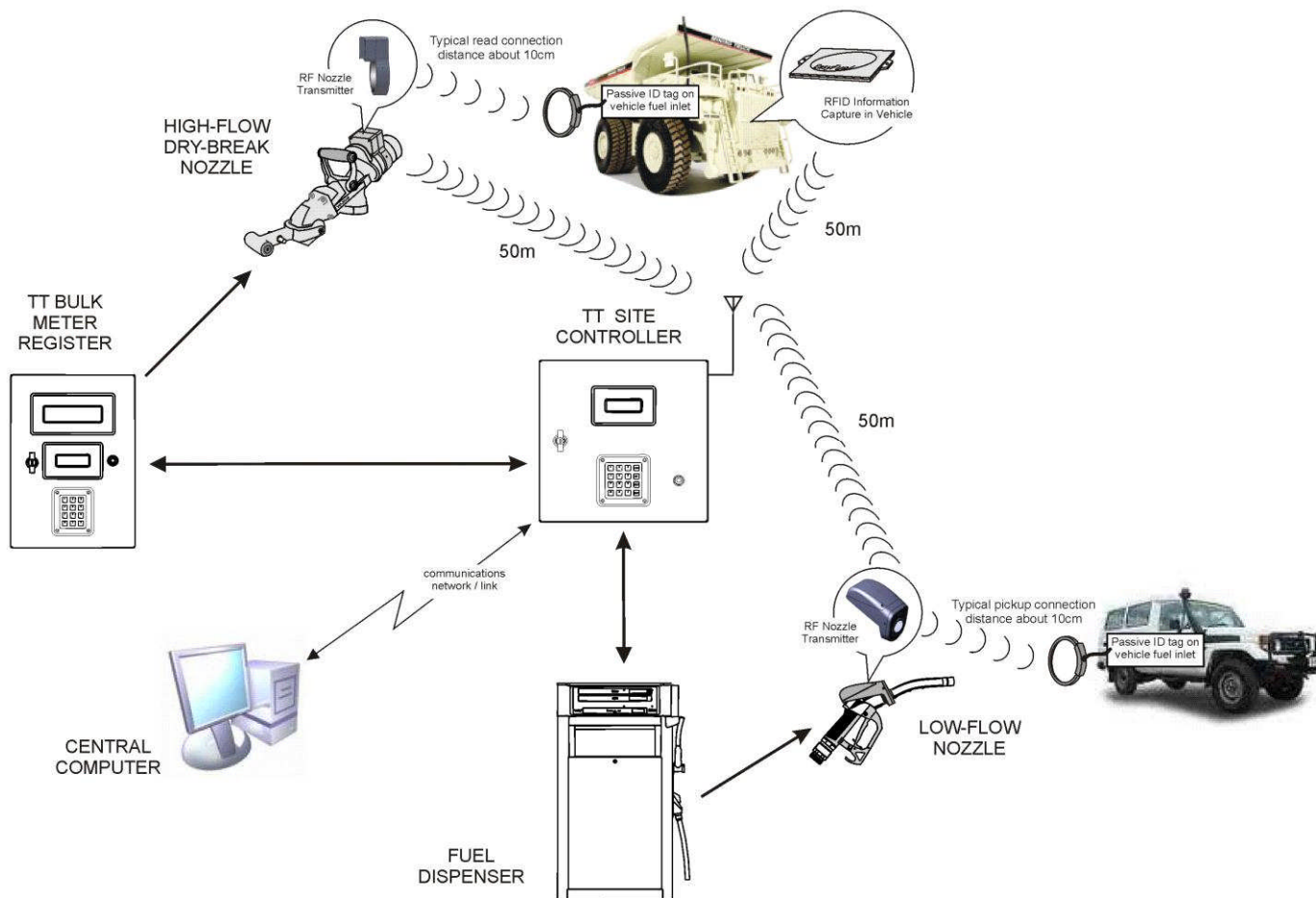
Passive Tag Read Range	Up to 10cm
Passive Tag Sizes	60mm, 70mm, 80mm, 90mm, 100mm, 110mm, 115mm, 120mm, 130mm, 140mm
Power Supply	No external power supply required
Temperature	-30C to +70C

RF Nozzle Options

RF Nozzle Options	Elaflex ZVA19 / ZVA25 / ZVA32 Wiggins / Banlaw
Power Supply	Internal field-replaceable battery
Frequency of Operation	433MHz

VID Options

VID Read Range	50 metres
Data Captured	Odometer / Hourmeter
Power Supply	9VDC – 32VDC less than 30mA
Size	135mm x 56mm x 15mm
Optional Connection	GPS Pulser for odometer capture on vehicle where odometer pulse is not available
Temperature	-30C to +70C



EasyFuelPlus System Architecture