

# Digital Fuel Level Sensor



## GuardMagic DLLE1

**GuardMagic DLLE1:** robust digital fuel level sensor with EIA-485 communication interface for application in hazardous area.

Operating only together with GuardMagic JBB01 intrinsically safe barrier.



**GuardMagic DLLE1**

### Specification:

Operation principle	capacitive
Operating voltage	10 V (from JBB01*)
Resolution (digital scale)	1024 or 4096 levels
Data line	isolated
Power line	isolated
Main operation liquids	diesel fuel, petrol kerosene, oil
Application (measuring rod)	zone 0
Communication interface	EIA-485
Communication speed	19 200 bit/sec
Internal data filter	YES
Ingress protection	IP67
Impact protection	IK10
Operation mode	continuous
Operation pressure	atmospheric
Operation temperature:	
- ambient	-40...+80
- liquids	-40...+105
Sensor length	1,3m; 1,5m; 1,7m; 2,0m; 2,5m; 3m
Customer sensor cutting	YES
Mounting	6 bolts M6

\*GuardMagic JBB01 intrinsically safe barrier operating voltage: 11V ... 36V

## fuel monitoring system

### About:

GuardMagic DLLE fuel level sensor is intended for precision fuel level measurement in mobile and stationary tanks and for application in road fuel tanker, fuel storage tank and fueling station monitoring systems.

GuardMagic DLLE sensor is designed with EX equipments requirements (II1G ExIIA&IIBT6) and is intended for standard and heavy application with the wide temperature range.

Sensor has the cast aluminum case for mechanical protection.

GuardMagic DLLE sensor use the capacitive technology and has not any moving parts.

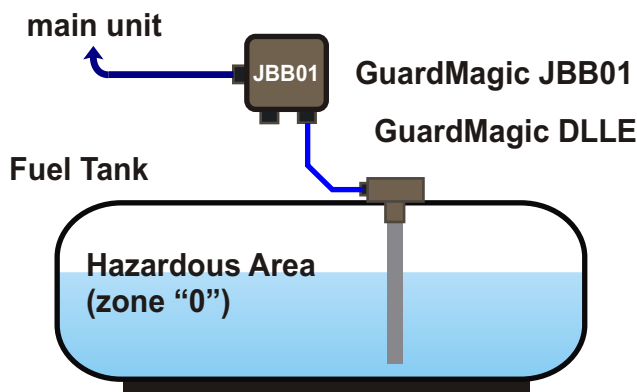
### Advantages:

- Standard and heavy application
- Operation in wide temperature range
- "0" zone application
- Anti vandal protection
- Digital communication interface
- High resolution (up to 4096 levels)
- High noise immunity
- Sensors serial connection (multi tank support)
- Operation liquids: from raw oil and up to kerosene
- Self testing
- Strong mounting

### Application:

- Road Fuel Tanker
- Fuel Distribution Truck
- Mobile and Fuel Storage Tank
- Fueling Station

### Connection Structure:



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