

## PLC Multiple Voltage Tag

### What is Power Line Carrier Technology?

Power Line Carrier Technology or PLC for short, transmits digital data onto the vehicles power line and allows tractor to trailer communications without adding any new wires.

**Transmits unit ID/ Data to any Gateway or Reader on the tractor or trailer to forward messages from the MV-Tag.**

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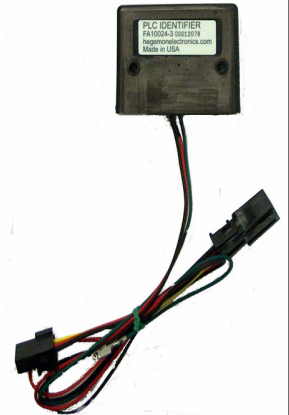
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### The PLC Identifier/Tag,

When installed on a tractor or trailer, it will send out the vehicle's Identification Number at regular intervals onto the vehicle's power line. This ID can be used to determine the hook and unhook times of the trailer or tractor. In addition, it can give positive confirmation that the correct trailer is hooked up to the correct tractor in real-time. The whole identification process is done automatically without any input from the driver.



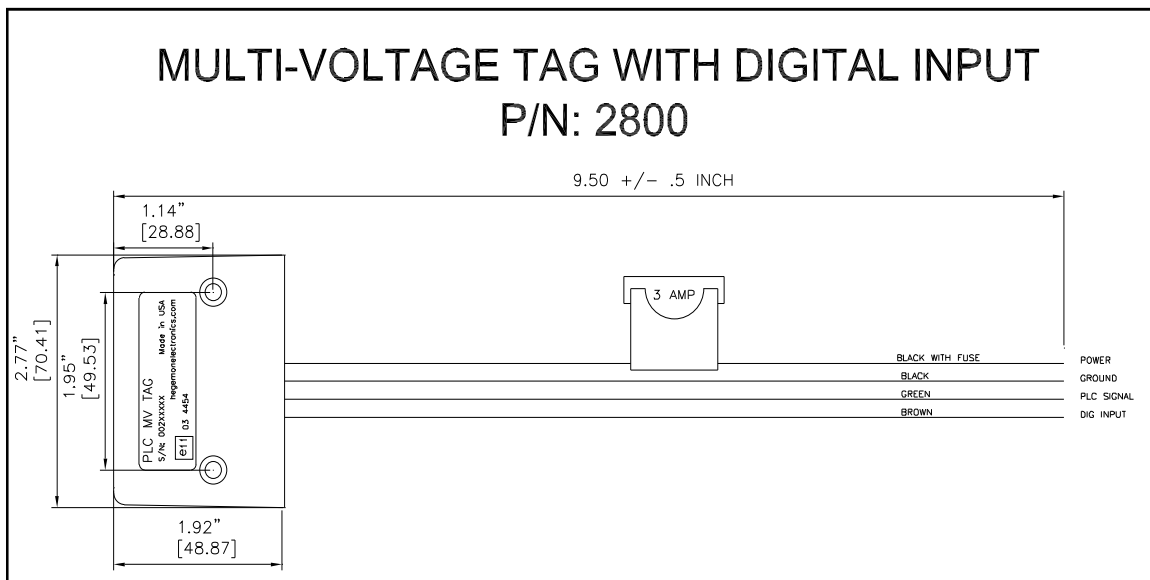
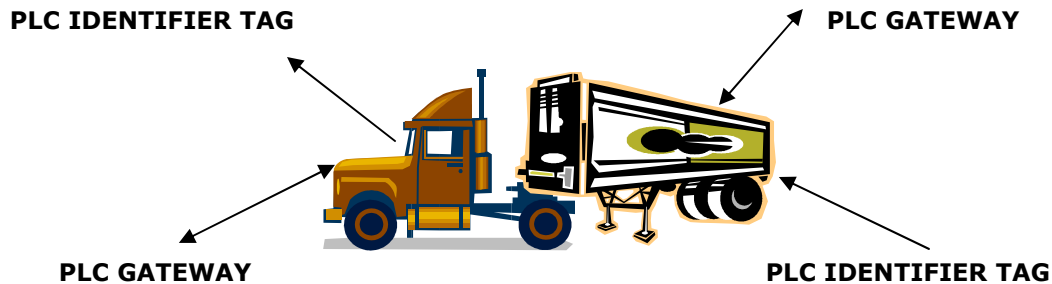
### Features of PLC Multiple Voltage Tag

- On/Off Hook determination for singles, doubles and trains
- Positive verification to the driver and dispatch that he has the correct trailer
- Dispatch notification of in/out of gate via Tractor Comms Link
- Updates with location/date/time of dropped trailers last known position
- Alarm notifications from Door Alarms, Reefer temperature
- No additional Airtime costs as reports are sent on the OBC carrier
- Optional inputs from Tire pressure monitors, ABS info, etc.

### MV Tag Specifications:

- Supply Voltage: 10 to 32 VDC      Operating Temperature    -40° to 85° C
- Reverse Battery Protection      Storage Temperature        -40° to 85° C
- Load Dump Protected            Operating current            32 mA
- Double Battery Protection      Physical Dimensions
- Reverse Transient Protection    2.80x1.98x0.60 inches

# Typical Application of the PLC Multiple Voltage Tag/Identifier



## Applications

- Positive trailer and/or tractor identification
- ABS Warning Information
- Tire Pressure Information
- Reefer Temperature Alarms
- Trailer Door Status
- Brake Stroke Indicator

## About Hegemon Electronics

Since 1994, Hegemon Electronics has offered complete design services for the OEMs. We offer complete turnkey design services from conception through production. We specialize in the heavy-duty automotive market but are versatile enough to take on other projects such as test equipment and other areas. Here are some services offered by Hegemon Electronics:

- Analog and Digital System Design
- Embedded Electronic System Designs
- Software Development in C/ C++ and Visual Basic
- PCB Layout
- Test Equipment Design
- EMC Compatibility Solutions
- Complete System Designs
- Product Manufacturing