identiFUEL™ Wireless Controller

WIRELESS CONTROLLER FOR FUEL MANAGEMENT SYSTEMS (FMS)

- Relays information read by Vehicle or Nozzle RFID Units to Fuel Management
- Triggers fuel dispersion based on FMS decision rules
- Multiple interface connection options available

The HID Global identiFUEL™ Wireless Controller (IWC) is a device that receives data from identiFUEL™ Vehicle or Nozzle Units and forwards this information to a central Fuel Management System (FMS).

The FMS software decides if and how much fuel to be dispensed based on received information and the configured business rules. The result is submitted back to the fuel pump or the Wireless Controller for execution.

Using a variety of interface standards including Ethernet, RS485, RS232, Wiegand or USB, the IWC can integrate with third-party systems intended for product transfer, fueling automation or access control.

The Wireless Controller utilizes an encrypted communication channel to the identiFUEL™ Vehicle and Nozzle Units and covers a distance of up to 328 ft (100 m). Firmware upgrades are easily possible post installation, to keep the controller up to date.

Two separate relays allow triggering external devices.

The identiFUEL™ Wireless Controller may either be embedded into other system components at the fueling site or be mounted externally by utilizing the optional waterproof housing.
## SPECIFICATIONS

### Wireless Controller

<table>
<thead>
<tr>
<th>Model Number</th>
<th>IWC900-0-1-GB-XX</th>
<th>IWE901-0-0-GB-XX</th>
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### ELECTRONIC

- **Operating Frequency to Vehicle Unit and Nozzle Reader**
  - IWC 900: 433.92 MHz
  - IWE 901: N/A

- **Network Connector**
  - IWC 900: RJ-45 10/100 Mbps
  - IWE 901: N/A

- **USB Connector**
  - IWC 900: USB 2.0 mini-b
  - IWE 901: N/A

- **Serial Connector**
  - IWC 900: RS-485 / RS-232
  - IWE 901: N/A

- **Magnetic Stripe Connector**
  - IWC 900: Wiegand
  - IWE 901: N/A

- **Power Supply Voltage**
  - IWC 900: 10 V DC to 30 V DC, polarity sensitive
  - IWE 901: N/A

- **Power Supply Current**
  - IWC 900: 300 mA
  - IWE 901: N/A

### PHYSICAL

- **Dimensions**
  - IWC 900: 5.7 × 6.69 × 2.48 in (145 × 170 × 63 mm)
  - IWE 901: 7.67 × 7.48 × 3.34 in (195 × 190 × 82 mm)

### CHEMICAL AND MECHANICAL RESISTANCE

- **Water**
  - N/A

- **Humidity**
  - IWC 900: 0 to 95% relative humidity at +104° F (+40° C) non-condensing
  - IWE 901: 0 to 95% relative humidity at +104° F (+40° C) non-condensing

### THERMAL

- **Storage**
  - IWC 900: -40° to +176° F (-40° to +80° C)
  - IWE 901: -40° to +176° F (-40° to +80° C)

- **Operating**
  - IWC 900: -13° to +140° F (-25° to +60° C)
  - IWE 901: -13° to +140° F (-25° to +60° C)

### OTHER

- **Standards**
  - IWE 901: N/A

- **Options**
  - IWC 900: External LF reader for ID badge identification
  - IWE 901: N/A

- **Quantity Per Box**
  - IWC 900: 1 pc.
  - IWE 901: 1 pc.

- **Warranty**
  - IWC 900: 1 year
  - IWE 901: 1 year

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**KEY TECHNOLOGY HIGHLIGHTS:**
- Simple installation
- Outdoor environment resistant housing
- Multitude of connectivity options
- Triggers fuel dispersion based on FMS decision
- Encrypted communication to Vehicle and Nozzle Units
- In-field firmware upgradeable

**TYPICAL APPLICATION AREAS:**
- Fueling stations for:
  - Construction vehicles
  - Trucks
  - Bus coaches
  - Any other commercial fleet vehicles

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