



# **Dual Nozzle Tag Installation Guide MNU- DMR-01-WW**

Dec 2022

Rev. A01



# Installation Guide Dual Nozzle Tag














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## Revisions Follow-up

Rev.	ECO No.	Description	Date	Approved
A00		First Edition	27/05/21	Ilan Shalit
A01		Add FCC warning	22/12/22	Inna Averbuch

## 1.1. Applicable Icons in this Document

					
Connect	Assemble	Route	Visual	Insert	Attention
					
Open	Click	Prepare	Secure	Pull	Press
					
Tighten					

## 1. Important Safety Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining, and servicing this product.

**This device complies with FCC Rules Part 15: Operation is subject to two conditions:**

**(1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation**

Notice:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Before performing any task on this product, read this safety information and the applicable section in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock or pressure release could occur and cause death or serious injury.

The instructions contained in this manual are intended for personnel trained by the manufacturer or manufacturer's representative only.

Preliminary Precautions

You are working in potentially dangerous environment of flammable fuels, vapors and high voltage or pressures, only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.

## 2. Read the Manual

Read, understand, and follow this manual and the other labels or related materials supplied with the equipment.

### 2.1 Safety symbols and warning words

This section provides important information about warning symbols and boxes.

**Alert Symbol**



This safety symbol alert is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

## Signal Words



**WARNING:** Alerts you to a hazard or unsafe practice which may result in death or serious injury.



**CAUTION** with alert symbol: Designates a hazard or unsafe practice which may result in minor injury.

## 2.2 Safety Rules for Working with Fuels and Electrical Energy in Gas Stations

- Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island. Open flames from matches, lighters, welding torches, or other sources can ignite fuel vapor.
- When performing work in gas stations you must use only manual pneumatic or hand tools. Do not use a soldering iron.
- If pneumatic tools cannot perform the work, you must use electric tools that are suitable for explosive areas.
- Make sure not to work on fuel equipment, tanks or dispensers with electric tools that may spread sparks or cause a flare-up.
- Turn off the power before performing any electrical work on gas station.
- Only an authorized electrician should carry out all wiring and connection of the electrical system.
- Ensure that grounding connections are properly made.
- A fence should be set around the work area in order to prevent injury of the employees and public.

### 3. Wireless Nozzle Reader (WNR)

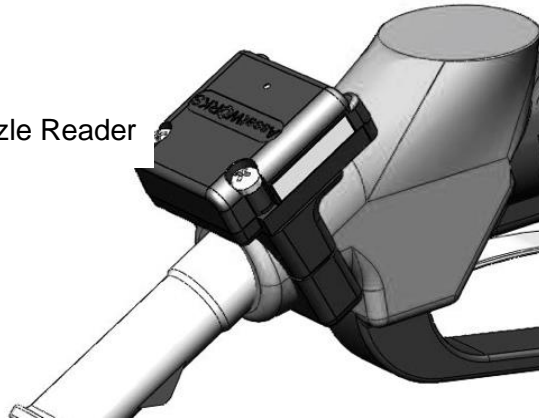
The Wireless Nozzle Reader (WNR) is an active stand-alone device fitted to the nozzle. The WNR is a robust system enclosed in rugged plastic, designed to operate in harsh fuel environments. It is easy to install and does not require any adaptations to the nozzle.

The nozzle is inserted into a vehicle fuel tank inlet. The WNR automatically reads the vehicle identification device data and transmits it to the Island Control Unit (ICU) via the Wireless Automated Fueling (WAF) unit to check the tag authentication and verification. Only then will authorization be approved and fuel dispensed into the vehicle.

Throughout the course of fueling the WNR transmits refresh signals to the WAF unit showing that the fueling is in progress and will do so until the transaction is completed.

The nozzle tag contains a replaceable battery that is able to operate for approximately up to 2 years depending on conditional usage.

Wireless Nozzle Reader



## 4. WNR Battery Replacement Instructions

 Do not open when an Explosive atmosphere is present. Risk of explosion if incorrect batteries are used. Always replace the batteries with original manufacturer batteries and of the type specified above.

### Step 1



Open VNR Tag by removing the 4 screws on the back.



### Step 2



Pull Plastic Cover off



Remove Seal  
(do NOT reuse the Seal)



### NOTE:

A new Seal is Supplied with the Battery



**Step 3**



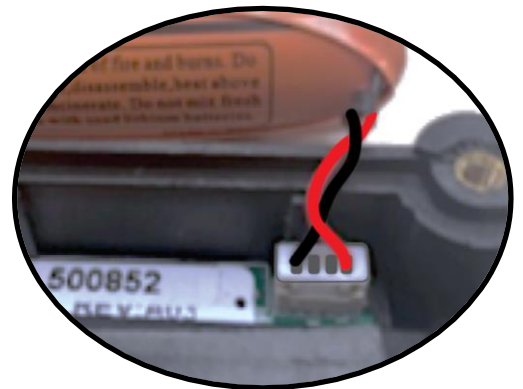
Remove Battery by carefully disconnecting connector from the nozzle tag housing.



**Step 4**



Insert new Battery.  
Insert connector as shown. Make sure connection is seated properly.



Place Battery in  
Nozzle Tag Housing.



**Step 5**



Carefully place the new Seal on the nozzle tag housing.  
(supplied with the battery)

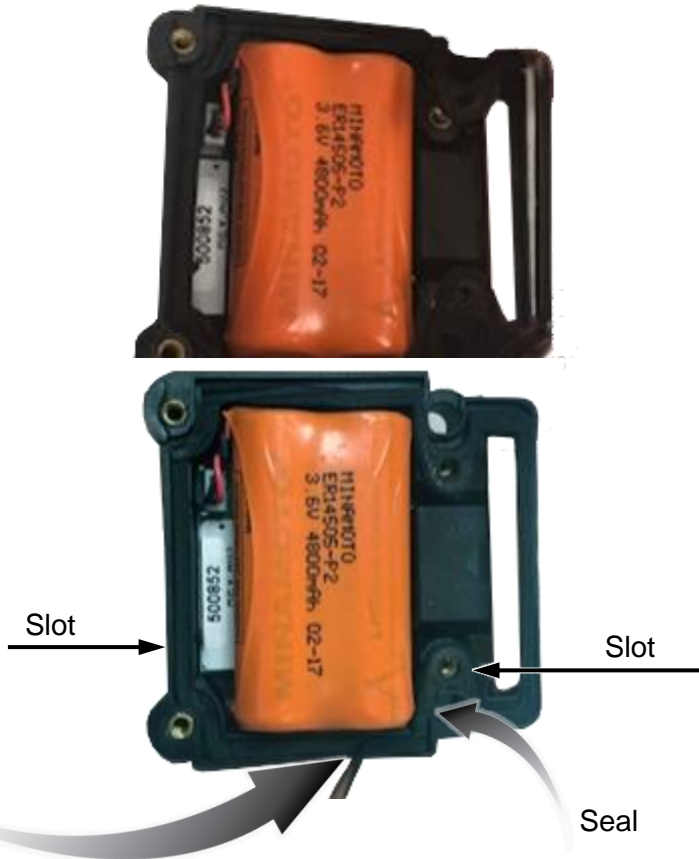


Make sure the Seal is flat all the way around the nozzle tag housing.



**Attention!**

The Seal should be inserted into the slot all the way around the cover.  
Use tweezers if necessary.



**Step 6**



Close WNR Tag with the 4 screws removed when opening the nozzle tag. Tighten the screws diagonally and only tighten half way until all screws are inserted. Then tighten all screws in the diagonal pattern.



Visually verify:

1. There are NO gaps all the way around the nozzle tag housing
2. There is light indication (red or green) for battery powered on if moving the tag at the correct angle (at least 45 deg.)



## 5. WNR Installation Preparation Instructions

### Step 1



Open the box and take out the WNR from the plastic bag



### Step 2



Remove label



### Step 3



Remove magnet



### Step 4



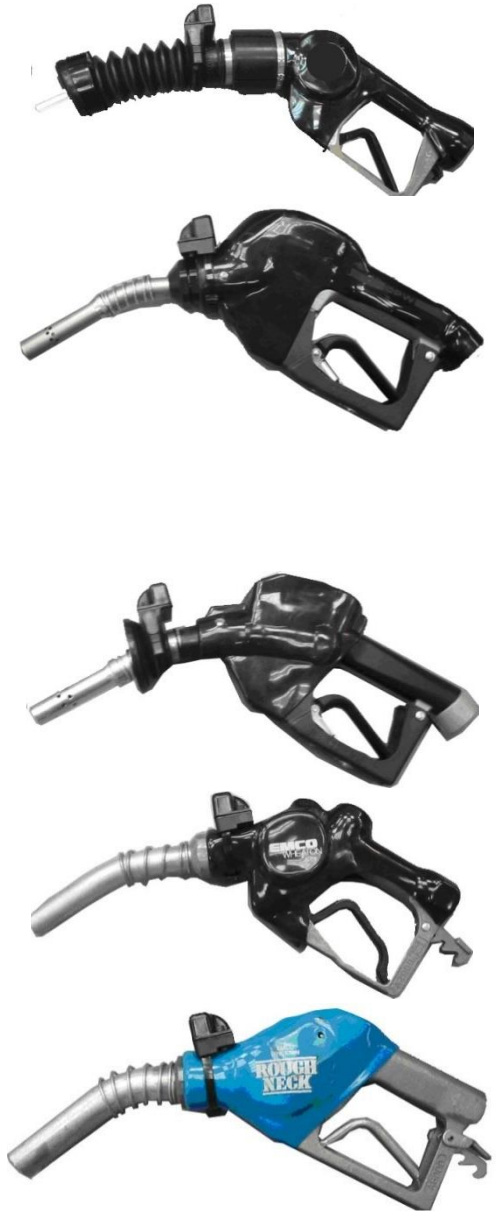
Visually verify:  
There is light indication after magnet removing



## 6. Wireless Nozzle Tags

The Wireless Nozzle Tag is a transceiver that can be installed on all types of fuel nozzles. The Wireless Nozzle Tag stays in a sleep mode until activated. The nozzle tag is activated by the VIB every time the nozzle is inserted into the fuel tank inlet. The nozzle tag is battery powered and will last at least two years under normal use.

Description	Part No.
Nozzle Tag for: OPW11VF-47 EMCO A4005	DMR-UNIVERSAL-KIT
Nozzle Tag for: OPW11VAI-27 OPW11VA-29 OPW11VA-37 OPW11VAA-61 OPW11VA-68	DMR-UNIVERSAL-KIT
Nozzle Tag for OPW-12VW OPW-11VA1-69	DMR-UNIVERSAL-KIT
Nozzle Tag for: Emco A2000 Mainly for gas	DMR-UNIVERSAL-KIT
Nozzle Tag for: Emco A6000 Mainly for diesel	DMR-UNIVERSAL-KIT



Description	Part No.
Nozzle Tag for: HUSKY-1A HUSKY-1+10S	DMR-UNIVERSAL-KIT
Nozzle Tag for PROPANE	RID-DMR-07-PRP-SET
Nozzle Tag for LNG (50E 701)	RID-DMR-07-50E701-SET
Nozzle Tag for Wheaton POSILOCK	RID-DMR-07-WTN-SET
Nozzle Tag for: CT1000 CC5000	RID-DMR-07-CT5000-SET
Nozzle Tag for: GGIE	RID-DMR-07-GGIE-SET
Nozzle Tag for: NVG	RID-DMR-07-NGV-SET

