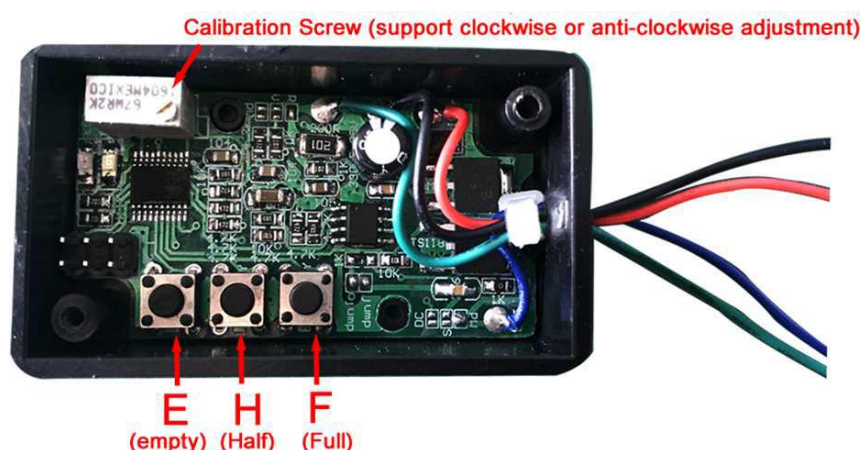
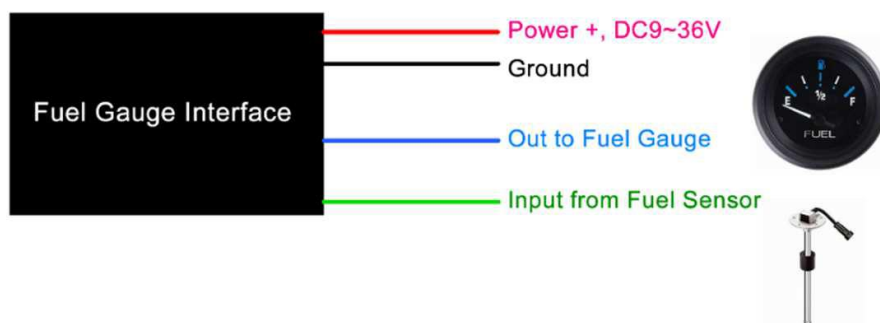


# USER GUIDE FOR FM101 FUEL TANK INTERFACE

This unit will convert input resistance signal to a target resistance signal, so that Fuel Gauge can work with different type/range of resistive fuel sensors.

The Full, Half and Empty position can be programmed.

The “in-between” positions between Full, Half and Empty are calculated by the microprocessor and are linear. The output is a NPN pulse width modulated signal which may cause “buzzing” in undamped gauges.



## 1. Instructions

- 1/ Mount module in a clean dry cool position.
- 2/ Connect wires as guide photo above
- 3/ Using **store mode**, program and store Full, Half, Empty and “Power on” positions.
- 4/ Using **power on mode**, program how you want the gauge to operate when car - **OPTIONAL**
- 5/ Operated in **run mode** and check.

### IMPORTANT NOTICE

When adjusting the screw, move gauge from Full to Empty to avoid hysteresis error – adjustment screw has 20 turns from end stop to end stop – passing these end stops will damage the unit and will not be warranted. Some gauges are very slow to move. Please allow time to stabilize.

The tank sender must have the same Ground as FM101, otherwise erratic readings will result.

## 2. Store mode

- 1/ Power off. Wait 5 seconds. Press “F” switch and power on then release “F” switch.
- 2/ Red LED only will turn on
- 3/ Set fuel sender float to Full position. Adjust gauge to Full using the calibration screw on FM101. Press “F” switch then release.
- 4/ Set fuel sender float to 1/2 way. Adjust gauge to 1/2 way using the calibration screw. Press “H” switch then release.
- 5/ Set fuel sender float to Empty. Adjust the gauge to Empty using the calibration screw. Press “E” switch then release.
- 6/ Adjust calibrations screw to show what the gauge displays when the car is started – **OPTIONAL**
- 6/ Press “E” and “F” simultaneously then release.

## 3. Power on mode - OPTIONAL

- 1/ Power off. Wait 5 seconds.
- 2/ Choose where you want the gauge to start from when the car is started (Usually the gauge “off position” )  
If you want the gauge to start at sender position. (suits bi-metal and cross coil gauges with damping)  
Press “E” switch and power on, release “E” switch.  
If you want the gauge to start at the preset position (set in store mode step /6). (suits gauges with no damping)  
Press “H” switch and power on, Release “H” switch.
- 3/ Green LED will turn on.

## 4. Run mode

- 1/ Power off, Wait 5 seconds, then power on.
- 2/ Green LED will turn on.