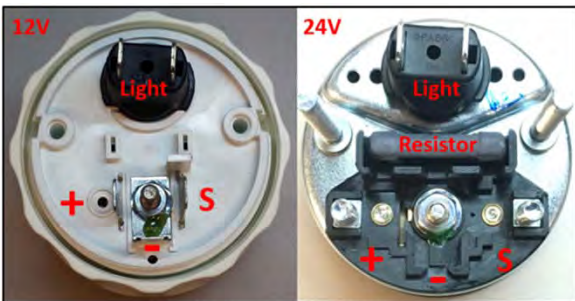


## Capacitance & Voltage Specifications USDOT

### Capacitance

Compare readings from all capacitance tests to the following graphs according to the tank size being tested and feed through cable (+/- 10 pF).

**Note:** If tank contains LNG, capacitance readings will reflect that level as a reading within the range between "Empty" & "Full" capacitances listed.



Fuel Gauge Resistance			
12V		24V	
Contact	Ohms	Contact	Ohms
Light Terminals	5	Light Terminals	22
(S) and (-)	250	(S) and (-)	251
(+) and (S)	170	(+) and (S)	393
(+) and (-)	278	(+) and (-)	500
		Resistor	221

Tank Outside Diameter	Empty Capacitance	Full Capacitance
20"	287	397
22"	314	437
24"	342	477
26"	370	516
26" Bonus	380	531

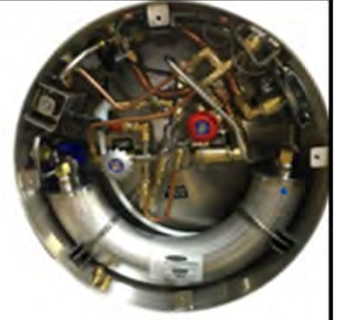
  

Tank Outside Diameter	Empty Capacitance	Full Capacitance
20"	322	432
22"	349	472
24"	377	512
26"	405	551
26" Bonus	415	566

Tank Outside Diameter	Empty Capacitance	Full Capacitance
20"	262	372
22"	289	412
24"	317	452
26"	345	491
26" Bonus	355	506

15" Feed Through



27" Feed Through



Bare Wire



### Input Voltage

Supply voltage will be measured on the "RED" wire. Supply voltage will be 12 to 14 VDC depending if the engine is operating, and the functional state of the batteries & charging system. Low/High supply voltages can cause incorrect signal voltages

### Signal Voltage

Signal voltage will be measured on the "Green" wire. Signal voltage is driven by capacitance and will vary depending on the amount of LNG in the tank, and supply voltage.

### Ground Resistance

Ground resistance will be measured on the "Black" wire. Connect one test lead to the black wire from the sending unit and the other to the tank for ground. Reading should be less than one ohm.

Red Wire = Supply Voltage  
Green Wire = Signal Voltage  
Black Wire = Ground



### VDO TYPE



### VOLTAGE TYPE



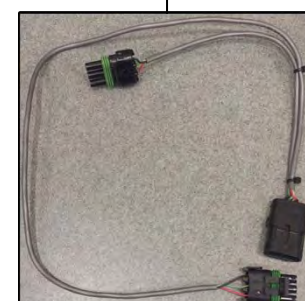
Input Voltage with engine operating, and charging system & batteries operating normally

		~14VDC	
VDO Type (Uses separate VDO gauge)	Empty		5.5
	1/2 Tank		3.5
	Full		1.5
Voltage Type (Uses OEM gauge)	Empty		0.5
	1/2 Tank		2.5
	Full		4.5

Capacitance Meter with Test Leads & Separate BNC Test Lead



Breakout Harness



Volt Meter with Test Leads



**NOTE:** General voltages & capacitances are provided in this document. Large deviations from provided numbers may indicate an issue. Supply voltage of ~12-14 VDC may vary depending on the engine operating rpm, and the functional state of the batteries & charging system. Low/High supply voltages can cause incorrect signal voltages