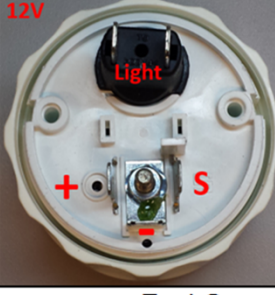



Capacitance & Voltage Specifications USDOT

Capacitance

Compare readings from all capacitance tests to the following graphs according to the tank size being tested and feed through cable (+/- 10 pf).
 11ft crossover cable = 195pf

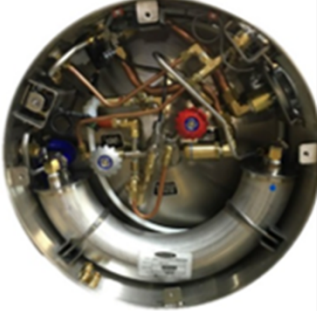
Note: If tank contains LNG, capacitance readings will reflect that level as a reading within the range between "Empty" & "Full" capacitances listed.


12V		24V	
			
Fuel Gauge Resistance			
12V Contact	Ohms	24V 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 

Contact Chart LNG Technical Service for proper tank size identification if needed

Supply 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. Ground issues can cause irregular voltages. Low/High supply voltages can cause incorrect signal voltages

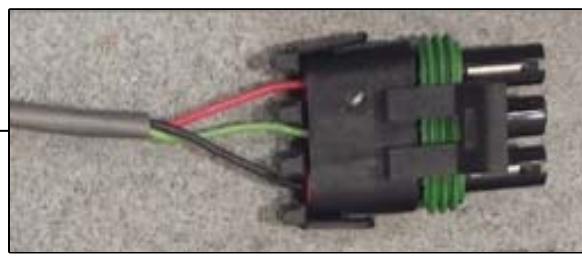
Signal Voltage



Signal voltage will be measured on the "Green or White" wire. Signal voltage is driven by capacitance and will vary depending on the amount of LNG in the tank, and supply voltage. Supply voltage and/or ground issues can cause irregular voltages.

Ground

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. Ground issues can cause irregular voltages.

Red Wire = Supply Voltage
Green/White* Wire = Signal Voltage
Black Wire = Ground
 * Signal wire may be green or white



VDO Type		Non-VDO Type	
			
Input Voltage with engine operating, and charging system & batteries operating normally			
~14VDC			
VDO Type	Empty		5.5
(Uses separate VDO gauge)	1/2 Tank		3.5
	Full		1.5
Non-VDO Type	Empty		0.5
(Uses OEM gauge)	1/2 Tank		2.5
	Full		4.5



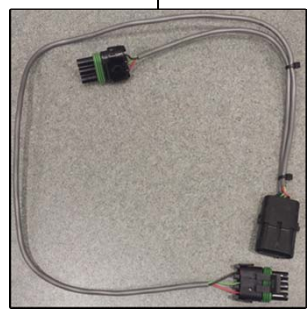
Capacitance Meter with Test Leads & separate BNC Test Lead
 Meter ports are polarity sensitive

Capacitance Meter 11633137
 Capacitance Test Lead 11385436



Breakout Harness

Breakout Harness 10989182



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, grounding, and the functional state of the batteries & charging system. Low/High supply voltages can cause incorrect signal voltages