emcee electronics, inc.
520 CYPRESS AVENUE • VENICE, FLORIDA 34285

CERTIFICATE OF CALIBRATION

EMCEE MODEL 1152 DIGITAL CONDUCTIVITY METER

(ASTM Standard Test Method D 2624)

Model Number	Description	Multiplier
152-00-0000	Range 0 - 2000 pS/m	X1

INSTRUMENT S/N: **115,200** JOB NUMBER: **8,231** COMPLETION DATE: 2/2/16

This instrument was tested and calibrated in accordance with American Society for Testing and Materials (ASTM) D 2624, "Standard Test Method for Electrical Conductivity of Aviation and Distillate Fuels", Institute of Petroleum (IP) designation IP 274, and supplemented by the manufacturer's procedures. Recommended frequency of calibration is one year from date of previous calibration or sooner, if the values obtained are suspect.

	PASS
1. Electrical Calibration*.....	X
2. Humidity Exposure...(Performed only on new units - **Date of Mfg. 12/22/2015**).....	X
3. Visual Inspection.....	X
4. Fuel Evaluation**.....	X

*Electrical Calibration compares the measurements obtained when the meter was manufactured or when last calibrated. The values were obtained using high value precision (1%) resistors to simulate an equivalent conductivity value, since conductivity is the reciprocal of resistance.
**Fuel evaluation compares measurements obtained using the Model 1152 to the lab standard Emcee Model 1154 Precision Conductivity meter which is listed in ASTM D 4308, "Standard Test Method for Electrical Conductivity of Liquid Hydrocarbons by Precision Meter".
Note: "As Received" tests performed only at customers request.
The probe value is dependent on the mechanical configuration of the probe which varies from unit to unit. Consequently, the meter is adjusted accordingly, to negate any off set in reading.The probe number was independently evaluated to determine if it had changed since last calibration.

CALIBRATION BOX (pS/m)	(S/N)	Current Reading (pS/m)		Previous Reading (pS/m)	As Recv'd (pS/m)
10	TF 1091B	**10**		**N/A**	**N/A**
50	TF 1091B	**50**		**N/A**	**N/A**
100	TF 1092B	**100**		**N/A**	**N/A**
500	TF 1092B	**500**		**N/A**	**N/A**
1000	TF 1093B	**1000**		**N/A**	**N/A**
Probe Number		**39**	36 - 44	**N/A**	**N/A**

FUEL TESTS	S/N		Current Readings (pS/m)	Previous Readings (pS/m)	As Recv'd (pS/m)
Lab 1154	15,875	Low	**35**	**N/A**	**N/A**
1152	**115,200**	Low	**33**	**N/A**	**N/A**
Lab 1154	15,875	High	**277**	**N/A**	**N/A**
1152	**115,200**	High	**276**	**N/A**	**N/A**

Service Tech: R. Smith Q.C. Tech: B. Diaz 3 Date: 2/2/16

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