



MET Laboratories, Inc.

914 W. Patapsco Ave. Baltimore, MD 21230

410-354-3300, Fax: 410-354-3313, 800-638-6057 www.metlabs.com

February 21, 2011

SATEC, Inc.
10 Milltown Court
Union, NJ 07083

Dear Boris Sindler,

It is our pleasure to inform SATEC, Inc. that the eXpertmeter™ EM920, as will be defined in the MET Laboratories' Test Report EMC and TEL29752-ANSI, has completed the following tests performed at MET Laboratories, Inc.

ANSI C12.20: 2002:

- 5.5.2.1 - No Load - Test #1
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.2 - Starting Load - Test #2
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.3 - Load Performance - Test #3
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.4 - Variation of Power Factor - Test #4
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.5 - Variation of Voltage - Test #5
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.6 - Variation of Frequency - Test #6
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.7 - Equality of Current Circuits - Test #7
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.8 - Internal Meter Losses - Test #8
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.2.9 - Temperature Rise - Test #9
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant



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- 5.5.2.11 - Effect of Internal Heating - Test #11
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.13 - Stability of Performance - Test #13
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.2.14 - Effect of Polyphase Loading - Test #14
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.3.1 Performance Verification
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- Insulation (Test #15)
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- Voltage Interruptions (Test #16)
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- Effect of High Voltage Line Surges (Test #17)
 - 1.2/50 us Combination Wave
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
 - 100 kHz Ring Wave
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- Effect of External Magnetic Field (Test #18)
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.3.6 - Variation of Ambient Temperature - Test #19
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.3.10 - Voltage Variation/Secondary - Test #23
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- 5.5.3.11 - Ambient Temperature/Secondary - Test #24
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant



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- Electrical Fast Transient/Burst (Test #25)
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- (ANSI C12.1) Effect of electrical oscillatory SWC (Test #25a)
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- Effect of Radio Frequency Interference (Test #26)
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- Radio Frequency Conducted and Radiated Emissions (Test #27)
 - Conducted Emissions
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
 - Radiated Emissions
 - Form 9S SN879397 CL20 120VAC – Compliant
 - Form 9S SN879398 CL10 120VAC – Compliant
 - Form 9S SN879399 CL20 120VAC – Compliant
- Effect of Electrostatic Discharge (Test #28)
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.17 - Effect of Operating Temperature - Test #30
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.18 - Effect of Relative Humidity - Test #31
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.19 - Mechanical Shock - Test #32
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.20 - Transportation Drop - Test #33
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.21 - Mechanical Vibration - Test #34
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.22 - Transportation Vibration - Test #35
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.23 - Weather Simulation - Test #36
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant



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- 5.5.3.24 - Salt Spray - Test #37
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant
- 5.5.3.25 - Raintightness - Test #38
 - Form 9S SN883090 CL20 120VAC – Compliant
 - Form 9S SN883091 CL10 120VAC – Compliant
 - Form 9S SN883092 CL20 120VAC – Compliant

For specific details regarding the extent of the testing and the configuration of the product tested, please consult the MET Laboratories' Detailed Test Report. Please contact me with any questions or comments.

Sincerely,

Jim Reed

Manager, Meter Accuracy Lab, MET Laboratories, Inc.