

## EMC Tests Certification per IEC 61000-6-2

Approved to ISO/IEC 17025



# EMC Test Certificate

Certificate No

K72790.01

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Date of Issue

01 May 2007

Applicant

Satec Ltd.

Tested to

CISPR 22: 2005, Class A  
EN 61000-6-2: 2001  
IEC 61000-4-2: 2001  
IEC 61000-4-3: 2006  
IEC 61000-4-4: 2004  
IEC 61000-4-5: 2005  
IEC 61000-4-6: 2006  
IEC 61000-4-8: 2001

Air Discharge, 8kV  
Contact Discharge, 4kV  
(80-1000 MHz), 10V/m  
80% A.M. by 1kHz  
2kV Power Lines, 1kV Signal Lines  
COM. Mode: 1kV, Dif. Mode: 1kV Power Lines  
2kV Signal lines  
(0.15-80 MHz) 10VRMS, 80% A.M. by 1kHz  
Power and Signal Lines  
30A/m, 50Hz

Certified Product

E.U.T.

Power Meter

Model:

PM130EH PLUS\*

Serial No.:

Not Designated

\* See customer's declaration dated 18 April 2007 in ITL test report no. E72790.00.

This is to certify that the product specified herein has been tested and found compliant with the requirements noted above.

Signature:

D. Yadidi

EMC Test Engineer

ITL091 Rev 1.6 26/06/05

Signature:

I. Raz

EMC Laboratory Manager

**I.T.L. (Product Testing) Ltd.**  
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## 4. Summary of Test Results

Test	Results
<b>Conducted Emissions</b> CISPR 22: 2005 Class A	The E.U.T met the performance requirements of the specification.  The margin between the emission levels and the specification limit was, in the worst case, 10.9 dB for the phase line at 0.51 MHz and 10.7 dB for the neutral line at 0.64 MHz.
<b>Radiated Emissions</b> CISPR 22: 2005 Class A	The E.U.T met the performance requirements of the specification.  The margin between the emission level and the specification limit was 6.4 dB in the worst case at the frequency of 182.20 MHz, vertical polarization.
<b>ESD</b> IEC 61000-4-2: 2001 Air Discharge, 8kV Contact Discharge, 4kV	The E.U.T met the performance requirements of the specification.
<b>Radiated Immunity</b> (80-1000 MHz) IEC 61000-4-3: 2006 10 V/m, 80% A.M. by 1kHz	The E.U.T met the performance requirements of the specification.
<b>EFT/B</b> IEC 61000-4-4: 2004 2kV Power lines, 1kV Signal lines	The E.U.T met the performance requirements of the specification.



## Summary of Test Results (cont'd.)

Test	Results
<b>Conductive Surges</b> IEC 61000-4-5: 2005 Differential mode; 1kV Signal lines, 2kV	The E.U.T met the performance requirements of the specification.
<b>Conducted Disturbances</b> (0.15-80 MHz) IEC 61000-4-6: 2006 10 VRMS, 80% A.M. by 1kHz	The E.U.T met the performance requirements of the specification.
<b>Immunity to Magnetic Field</b> IEC 61000-4-8: 2001 30 A/m, 50Hz	The E.U.T met the performance requirements of the specification.



מוניות לתקנים בינלאומיים בישראל

APPROVED TO ISO/IEC 17025

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TO: Satec Ltd.  
ATT: Dany Shacked  
FROM: Moshe Henig  
DATE: 22 July 2007

**Model: Power Meter PM130EH PLUS\***

Dear Danny

This is to confirm that the subject product has been submitted to us for engineering evaluation for STD: IEC 62052-11

The following test were performed:

1. Insulation Impulse Voltage.
2. 6kV surge 1.2/50 signals with - source impedance of 500 Ohm +/- 50 Ohm  
Impulse was applied 10 times one polarity and then repeated with the other polarity.
3. No failures were observed during the above test.

ITL is an independent test laboratory, certified to ISO/IEC 17025:1999, ISO9002 and EN45001.

International agencies and institutions that certified ITL include ISRAC, UL, MET, FCC, Industry Canada, A2LA, TUV, MedCert, and NATA.

\*Model PM130EH PLUS is Identical to PM130P PLUS See customer declaration.

*Moshe Henig*

Moshe Henig Dipl. Ing. SMIEEE NCE  
Senior Compliance Engineer

*E. Avital*

Elie Avital BSEE MBA  
Safety division Director