

ISRAEL Accuracy and Insulation Tests Certification per IEC 62053-22 class 0.5S

 ilac-MRA ISO/IEC 17025 NO. 094.02	 ISRAC מוסד תאגידים לביטוח אמינות ISO/IEC 17025 NO. 094.02	Israel Electric Corporation Marketing Division Central Metering Unit 17 Ha-Lehi Street, Bnei Brak 51200, Israel Tel. 972 3 6174859 Fax 972 3 6174908	
Test Certificate			
Page 1 of 9	Date: 10/07/2007	Test Certificate No.: 167-2007	
According to procedure No. n/a		And/or according to requirement: 29-2007	
Date of acceptance: 25/06/2007	Description of tested item: <i>Power Meter</i>		
Manufacturer: SATEC	Type: PM130 PLUS	Serial No: 72446, 72447	
Status: new			
Customer: SATEC	Address: Har Ha-tzofim, Science Based Industrial Park, POBox 45022, Jerusalem 91450, Israel.		
Environmental conditions: Ambient temperature: 23°C±2°C; relative humidity: 50%±20%			
Method: Comparison with reference standard			
Suggested next test date: n/a			
List of main equipment used for the calibration			
Description/Type	Manufacturer	Serial number	Test date
RMM 3000	Zera	7/5302	3/2006
MTS 320	Zera	7/5130	6/2007
9500	F.W.Bell	7/4342	11/2004
UNITEST	BEHA	K2251/19	2/2007
UH 28 M	RB	7/4009	2/2004
GP3050	SCHLUMBERGER	7/5098	6/2007
VCL 4034 MH	VOTSCH	7/5282	9/2006
51-548-1	ZERA	7/3671	11/2004
<p>The reported expanded measurement uncertainties correspond to the coverage probability of approximately 95% and based on coverage factor K=2, or as stated in enclosed document.</p> <p>The results of calibration characterize the calibrated item at the time of calibration only, and not include any changes after this time.</p> <p>Reference should be made the full document. The document or part of it should not be copied without confirmation with the laboratory manager.</p> <p>This Calibration meets the requirements of ISO/IEC 17025 and reference quantities of the laboratory are traceable to national and international reference quantities.</p> <p>The use of ISRAC symbol relates to tests/calibrations which are included in the laboratory scope of accreditation, as detailed in the accreditation certificate.</p> <p>ISRAC is a signatory of the International Accreditation Cooperation (ILAC)</p> <p>ISRAC is a signatory of the Mutual recognition of test and calibration reports/certificates.</p>			
		Signature:  Date: 10/07/07	Tested by: G. Mitelman Date: 12/7/07
		Verified by:  בן ציון רבניץ מהנדס מומחה מנהל סכני במעבדת תקנים מחלקת מדידה למידות	
Form No.: 06/307-06-03-23, version 3			

Test report of samples "Power Meter PM130 PLUS"

List of samples

Manufacturer	Type	Serial number	Reference voltage, V	Rated (maximum) current, A	Reference frequency, Hz
SATEC	PM130 PLUS	724446	230/400	3 x 5(10)	50
		724447			

List of performed tests

# item in IEC62053-22- class 0.5 s	# item in IEC6205 2-11	Test	Pass/No pass	# test
8.1	-	Error due to variation of the current	Pass	1.
8.2	-	Error due to ambient temperature variation	Pass	2.
8.2	-	Error due to voltage variation	Pass	3.
8.2	-	Error due to frequency variation	Pass	4.
8.2	-	Error due to reversed phase sequence	Pass	5.
8.2	-	Error due to voltage unbalance	Pass	6.
8.2.1	-	Error due to harmonic components in the current and voltage circuit	Pass	7.
8.2.2	-	Error due to sub-harmonics in the a.c. current circuit	Pass	8.
8.2.3	-	Error due to magnetic indication of external origin 0.5 mT	Pass	9.
8.3.1	-	Test of initial start-up of the meter	Pass	10.
7.4	7.3.3	AC voltage Insulation test	Pass	11.
7	7.3.2	Impulse voltage tests for circuits and between the circuits	Pass	12.

Expanded uncertainty of energy error: 200ppm at PF = 1 and 250ppm at PF = 0.5