

Cable Address : METELEC BANGKOK  
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METROPOLITAN ELECTRICITY AUTHORITY  
30 PLOENCHIT ROAD,  
BANGKOK 10330 THAILAND.  
Telephone : 0-2254-9550

DISTRIBUTION EQUIPMENT DEPARTMENT  
METER DIVISION METER TESTING SECTION

TEST REPORT

No. MT lab 018/2549

Equipment : 1 Phase 2 Wire Energy Meter  
Model/Type/Sr.No. : FORTH : GEM-145 AMR Ser. 177 0500 725  
Rated : 220V. 15(45)A.  
Manufacturer : Genius Electronic Meter Co.,Ltd.  
Submitted by : Genius Electronic Meter Co.,Ltd

Reference Standard Equipment

Electronic Standard Source :

- MTE Meter Test Equipment AG(Switzerland) Model : PTS 1.1 : 04015.02 Serial No. 22 061

Energy Meter Standard

- MTE Meter Test Equipment AG(Switzerland) Model : PRS 1.3 : 500 28.01  
Serial No. : 24 821 Accuracy class : 0.05

Traceability

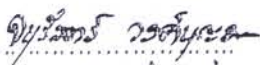
Periodic checks of MEA's reference standard are done with the EMH GmbH(Germany) Lab's energy standard

The EMH GmbH Lab's energy standard is subject to periodic traceability checks to the Physikalisch-Technische Bundesanstalt (PTB), Germany

Date of Testing: July 20,2006

Environment : Temperature  $25 \pm 3$  °C  
: Relative Humidity  $55 \pm 10$  %

Approved By :

  
(นายจรรุวัศกร วงศ์บุญมาก)

หัวหน้าแผนกทดสอบเครื่องวัด  
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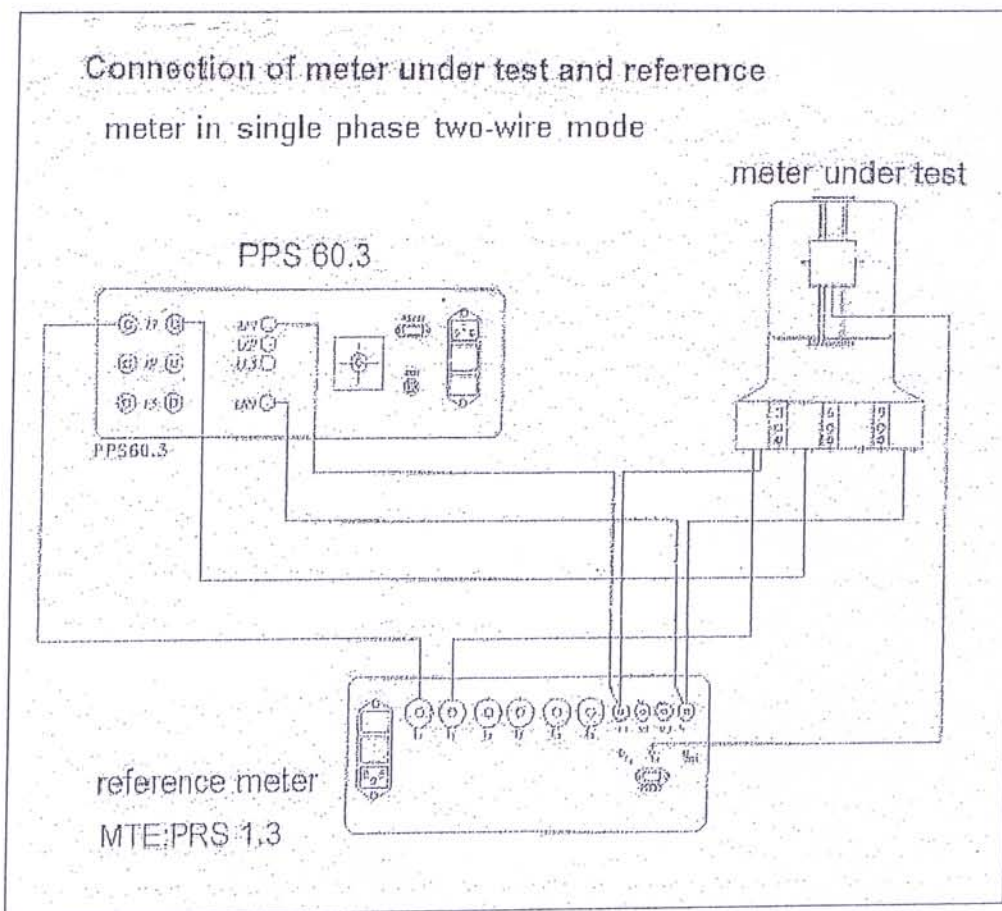
Procedure used :

- This equipment was tested by comparison with Energy Meter Standard (PRS 1.3)

Condition of test report :

- This result of testing was found accurate as show on date and place of testing only.

Procedure Diagram :



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ENERGY MEASUREMENT

| LOAD<br>(Amp) | PF.              | Ph.  | Active Energy Error (%)              |                 |                 |                 |         | Reactive Energy Error (%) |                 |                 |                 |      |
|---------------|------------------|------|--------------------------------------|-----------------|-----------------|-----------------|---------|---------------------------|-----------------|-----------------|-----------------|------|
|               |                  |      | [Meter Constant = 3200 pulse/1 kWh.] |                 |                 |                 |         |                           |                 |                 |                 |      |
|               |                  |      | P.                                   | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> | Avg.    | Q.                        | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> | Avg. |
| 45.0          | 1.0              | 1Ph. | +                                    | 0.006           | -0.022          | 0.029           | 0.0043  | +                         | -               | -               | -               | -    |
| 45.0          | 0.5 <sub>L</sub> | 1Ph. | +                                    | 0.479           | 0.476           | 0.456           | 0.4703  | +                         | -               | -               | -               | -    |
| 30.0          | 1.0              | 1Ph. | +                                    | -0.032          | 0.013           | 0.000           | -0.0063 | +                         | -               | -               | -               | -    |
| 30.0          | 0.5 <sub>L</sub> | 1Ph. | +                                    | 0.482           | 0.476           | 0.469           | 0.4757  | +                         | -               | -               | -               | -    |
| 15.0          | 1.0              | 1Ph. | +                                    | -0.051          | -0.038          | -0.058          | -0.0490 | +                         | -               | -               | -               | -    |
| 15.0          | 0.5 <sub>L</sub> | 1Ph. | +                                    | 0.456           | 0.456           | 0.468           | 0.4600  | +                         | -               | -               | -               | -    |
| 10.0          | 1.0              | 1Ph. | +                                    | 0.020           | 0.019           | 0.015           | 0.0180  | +                         | -               | -               | -               | -    |
| 10.0          | 0.5 <sub>L</sub> | 1Ph. | +                                    | 0.562           | 0.564           | 0.538           | 0.5547  | +                         | -               | -               | -               | -    |
| 5.0           | 1.0              | 1Ph. | +                                    | -0.004          | 0.011           | -0.007          | 0.0000  | +                         | -               | -               | -               | -    |
| 5.0           | 0.5 <sub>L</sub> | 1Ph. | +                                    | 0.564           | 0.576           | 0.569           | 0.5697  | +                         | -               | -               | -               | -    |
| 0.75          | 1.0              | 1Ph. | +                                    | 0.315           | 0.289           | 0.308           | 0.3040  | +                         | -               | -               | -               | -    |

Register Test

No Load Test

Remark

Result of test :

Without adjustment

After adjustment

Tested By

..... *R. Wuthipong* .....

[Mr. Wuthipong Rak Phuaen]

Electrical engineer

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