

Headline	Advantages of Digital Meters		
MediaTitle	PC. Com		
Date	28 Nov 2013	Color	Full Color
Section	NEWS	Circulation	25,000
Page No	128	Readership	25,002
Language	English	ArticleSize	449 cm <sup>2</sup>
Journalist	N/A	AdValue	RM 4,117
Frequency	Monthly	PR Value	RM 12,351



# Advantages of Digital Meters

**E**lectricity is an age old utility that many have come to take for granted. The same can be said of the electromechanical meter that is used to track the amount of power a home uses. At least that was how Malaysians feel when it comes to power tariffs and all things electricity.


That all changed in 2003 when Tenaga Nasional Berhad (TNB) introduced digital meters to track power consumption in an established location. Initially deployed at new installations for Large Power Customers (LPC) - factories and commercial areas, and Ordinary Power Customers (OPC), - residential and small commercial premises, TNB quickly moved to replace the older electromechanical meters through an initiative known as the Aged or Routine Meter Replacement Programme. It was during this operation that TNB moved to

install the new system in place of the older equipment. This meter replacement is a practice carried out by most prudent utilities around the world.

Such a move was carried out as it is in line with The Electricity Supply Act 1990 and The Licensee Supply Regulations, 1990. As such, TNB needs to change meters that have exceeded  $\pm 3\%$  of allowable accuracy range to make sure the meter is reading correct consumer consumption. According to TNB, digital meters do not have moving parts. It is said that digital meters are more stable and will register actual consumption. In addition, it is designed to provide greater safety to consumers as it is able to detect even the slightest of power leakages. TNB installed digital meters to replace the aged electromechanical meters to ensure consumers benefit from the correct meter reading and is billed fairly according to their electricity usage.

Through the meter replacement programme, and with new installations taking place in tandem, TNB has, to date, installed a total of four million digital meters - both in LPC and OPC premises. Furthermore, there is no cost to consumers for the installation of the digital meter. This also includes replacing electrical wiring and worn out service cables to ensure no hazardous elements are exposed to the general public.

According to TNB, these new digital meters are stringently certified through the Malaysian Lab Accreditation Scheme (SIRIM) and have been calibrated based on MS ISO/IEC 17025:2005. The digital switch is part of TNB's commitment to Lighting Up Lives for generations to come.

For more information on digital meters or the Meter Replacement Programme, please visit TNB website at [www.tnb.com.my](http://www.tnb.com.my). 

Digital Meter



**Eliminating Power Loss:**

The loss of voltage is lower compared to the use of electromechanical meters.

**Safety:**

Digital Meters are able to detect the slightest power leakages, thus preventing accidents from occurring in the household.

**Data Storage:**

Digital Meters are capable of permanently recording and storing various forms of data, which includes the amount of electricity consumed, specific time and date, for verification purposes or reference in future.

**Improved Reliability:**

Digital Meters improve reliability and make the electricity grid more resilient in the face of outages and other problems.

**Accuracy:**

The use of Digital Meters eliminates inaccurate power usage readings that may occur in electromechanical metres.



**Electromechanical meter:** operates with a life span of 15 years and due to many moving components that wear out over time, provide inaccurate readings of electricity use.