



# The Institution of Engineers, Malaysia

(Southern Branch)

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## Half-Day Talk on Protection Relays

Presented by Mikro Berhad

**Date** : Saturday, 6 December 2008  
**Venue** : Delima 1 & 2, Level 2, The Puteri Pacific Hotel, Johor Bahru  
**Speaker** : Engr. Chan Yaw Sang – Technical Application Manager of Mikro Berhad

### Synopsis:

The purpose of the talk is to enable the participants to understand the working principle, technology and its application of protection relays. The talk also covers the power factor regulator and its benefits.

### Contents:

1. Protective Relays: Why Need Protection, Protection System Components, What is a Protective Relay?, Protective Relays Technology, Working Principle, Advantages of Protective Relays, Statistic Relay Classification, Method of Current Measurement, Earth Leakage versus Earth Fault, Earth Leakage Protection
2. Application of Over-current Protection: Over-current, Type of Over-current Relays, Co-ordination
3. Power Factor Regulator: Electric Load, Power, Benefit of Power Factor Correction, Power Factor Measurement

### Programme:

Time	Tentative Programme
8:30 – 9:00 am	Registration
9:00 – 9:15 am	Welcome Speech By IEM (SB) Organising Committee Chairman
9:15 – 10:20 am	Protection Relay
10:20 – 10:30 am	Questions & Answers
10:30 – 10:45 am	Tea Break
10:45 – 12:00 noon	Application of Over-current Protection
12:00 – 12:10 pm	Questions & Answers
12:10 – 12:45 pm	Power Factor Regulator
12:45 – 1:00 pm	Questions & Answers
1.00 pm	Lunch & End

### About the Speaker:

Engr. Chan Yaw Sang is currently the Technical Application Manager of Mikro Berhad, a company which specialises in the design and manufacturing of IED (Intelligent Electronic Devices). Examples of IED are Protective Relays, Power Factor Regulator and Digital Meters. As the Technical Application Manager, Engr. Chan is responsible for marketing and technical application of these products as well as surveying for new market requirements for the IED in the electrical distribution network. Graduated as an Electrical Engineer, Engr. Chan has more than twelve (12) years of working experience involving in the HV substation protection, control scheme design (3 years), technical support as well as marketing of protection and automation products (9 years) in the field of generation, transmission and distribution of multi-national companies.

**Commitment Fees:** RM 40.00 (For IEM members) RM 70.00 (For non-IEM members)

Registration will be on a first-come-first-serve basis. Kindly return the reply slip to the IEM (SB) office before **2nd December 2008** together with a non-refundable seminar fee made payable to **The Institution of Engineers, Malaysia (Southern Branch)**. Please note that the fee must be settled in advance prior to the seminar. Please also be reminded that if a place has been reserved and the intended participant failed to attend the program, the fee will still have to be settled in full. Thank you for your continuous support of the Institution

Chairman Sub-Committee on Seminar and Technical Talk, IEM (SB)

### REPLY SLIP

BEM Approved  
CPD HOURS: 4  
Ref No: IEM08/SB/301/T

To: Hon. Secretary, The Institution Of Engineers, Malaysia (Southern Branch) **FAX: 07 - 331 9710**

### Half-Day Talk on Protection Relays

Saturday, 6 December 2008, 9.00am – 1.00 pm in The Puteri Pacific Hotel, Johor Bahru

I wish to attend the above talk. I enclosed herewith a cheque No ..... for the amount of RM.....as payment for the commitment fees.

Name of Member : ..... Membership No : ..... I/C No: .....

Address : ..... Tel (O) : .....(Fax).....

..... Tel (H/P) : .....

..... Email : .....

Company's Name : .....

Signature: .....

Date: .....

\*(please bring along the flyer for confirmation of attendance)

**Note:** For IEM members, membership cards shall be presented for identification purposes. Failure to present the membership card, that participant will be declared as a non-IEM member and will be required to pay the non-IEM member fees.