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TECHNICAL VISIT TO MIKRO MSC BERHAD

COMPLIMENTARY VISIT FOR TEEAM MEMBER ONLY
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Topic 1 By
Ir. LEE WENG YAW

Topic 2: By
Ir. NG TONG HENG

Pending BEM CPD Hours & CIDB CCD Points

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Mikro MSC Berhad, along with its subsidiaries, is a leading Malaysian manufacturer of protection relays, power meters, power factor regulators, and low to medium voltage busway systems. With full in-house design capabilities, Mikro develops products that are aesthetically engineered, functionally robust, and fully compliant with international standards. Its solutions form a core part of electrical distribution systems across industrial, commercial, and infrastructure sectors.

Programme

9.15 am : Registration & Light Breakfast
9.25 am : Welcome Address
9.30 am : **Topic 1**: Protection Relay: Complying with Suruhanjaya Tenaga's 4-Year Calibration Directive and MIKRO MK Busway System
10.30 am: Coffee Break
10.45 am : Visit of MIKRO R&D Laboratory and Production Manufacturing Facilities
12.00 pm : **Topic 2**: Enhancing Power Quality in Solar PV Systems with Power Factor Regulators
1.00 pm : End

Event starts on:

18 SEPTEMBER 2025
THURSDAY

MIKRO MSC BERHAD
3, Jalan Anggerik
Mokara 31/48, Sek 31,
Kota Kemuning, 40460
Shah Alam, Selangor

Important Note:
Final acceptance of participation is subject to the approval of MIKRO MSC.
Participants will be notified by TEEAM upon confirmation.
Seats are limited to 25 and on a first-come first-served basis.

SYNOPSIS

Protection Relay Complying with Suruhanjaya Tenaga's 4-Year Calibration ST Directive and MIKRO MK Busway System

Mikro's RX, X, and MK-Series relays comply with Suruhanjaya Tenaga's 4-year calibration requirement. Certified by SIRIM and approved by JKR EMAL, they meet Malaysian regulatory standards. The 4-year cycle reduces shutdowns and saves on maintenance costs. Features include IRF alarms, self-diagnostics, NFC setup, and event/fault logs. Mikro relays offer compliance with enhanced reliability and cost efficiency. The MK Series Epoxy Busway supports 550A–7500A with high thermal and mechanical performance. Certified to IEC, UL, and DEKRA standards, it suits industrial and commercial use. It offers space-saving plug-in and tap-off solutions with excellent fire resistance. Optional sensors provide real-time temperature monitoring for safety.Reliable, compact, and efficient—ideal for modern power distribution.

Speaker's Profile

Ir. Lee Weng Yaw B.Eng (Hons) in Electrical & Electronics Engineering (UNITEN), P.Eng, REM T2. Ir. Lee Weng Yaw is currently the Application and Marketing Manager at Mikro Sdn. Bhd., where he has built his career over the past 10 years. He holds a Bachelor of Engineering (Hons) in Electrical & Electronics Engineering from Universiti Tenaga Nasional (UNITEN). He is a registered Professional Engineer with the Board of Engineers Malaysia (BEM) and a Registered Energy Manager (REM) certified by the Energy Commission (Suruhanjaya Tenaga). Since joining Mikro Sdn. Bhd., Ir. Lee has accumulated extensive experience in the electrical protection and energy management industry. He specialises in product support and market development for protection relays, power factor regulators, digital power meters, and energy management systems (EMS). He is actively involved in site work including testing, commissioning, and troubleshooting of protection relays and low-voltage systems. Ir. Lee provides technical consultation to consultants, contractors, OEMs, and end users—ensuring technically compliant and cost-effective solutions throughout the project lifecycle. As part of his strategic role, Ir. Lee conducts market analysis, leads product positioning initiatives, and delivers technical presentations to support business growth. He also organizes and leads technical trainings, webinars, and exhibitions nationwide. His technical expertise includes electrical protection, coordination studies, and energy efficiency applications.

SYNOPSIS

Enhancing Power Quality in Solar PV Systems with Power Factor Regulators

Maintaining high power factor reduces energy loss and avoids TNB penalties. Low PF is often caused by inductive or harmonic-rich loads. Mikro's PFR automatically controls capacitor banks to maintain target PF. Key features: CT polarity correction, 4-quadrant mode, and THD monitoring. Application cases cover solar systems, multi-feeders, and unbalanced loads.

Speaker's Profile

Ir. NG TONG HENG B.Eng (Hons) in Electrical & Electronics Engineering (UNITEN), P.Eng, REM T2. Ir. Ng Tong Heng is the Technical Business Development Manager at Mikro Sdn Bhd, contributing to both the research and development team and the company's strategic growth. With over 15 years of experience in the electrical industry, he focuses on continuous improvement of product quality, particularly in protective relays, digital meters, protection systems, and power factor regulator applications. He holds a Bachelor of Engineering (Hons) degree from Universiti Tenaga Nasional (UNITEN), Malaysia, and is a Professional Engineer (Ir.) as well as a Certified Energy Manager (Type 2). Known for his expertise in technical support, system integration, and troubleshooting, Ir. Ng has been instrumental in delivering reliable and energy-efficient electrical solutions for a wide range of industrial applications.