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ELECTRICAL ENGINEERING TECHNICAL DIVISION, IEM

IEM
The Institution of Engineers, Malaysia

1 DAY SEMINAR ON AUTO TRANSFER SWITCHES BASED ON MS IEC 60497-6-1 & ATS & GENERATORS MICROPROCESSOR BASED CONTROLLERS

2ND AUGUST 2023, WEDNESDAY
9AM - 5PM
FOUR POINTS BY SHERATON, PUCHONG

SPEAKER: MR RITESH LUTCHMAN

BEM APPROVED CPD: 6
REF. NO.: IEM23/HQ/209/S

Registration Fees (Subject to 6 % SST):
IEM Student Member : RM 50.00
IEM Graduate Member : RM 100.00
EM Graduate Member : RM 150.00
IEM Non-Members: RM 220.00

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SYNOPSIS

PART 1 - AUTO TRANSFER SWITCHES BASED ON MS IEC 60497-6-1

1)MS IEC60947-6-1 for ATSE
a)Short circuit withstand of ATS
b)Category utilization - AC31/33 in "A" or "B"
c)Different Class of ATSs' - CB, PC & CC

2) The functionality and application for different types of Automatic Transfer Switch. Types of Automatic Transfer Switches available for different application such as :-
a) Standard Transfer : Open Type - Simple transfer system for small load
b) Closed Transition Transfer : Overlap Type - For uninterruption of power supply to load
c) Delay Transfer with "OFF" position : Open Type - The "OFF" position is important when transferring large motor load. This is to allow the magnetic field to "decay" before transfer to prevent back EMF generated by the motor which can trip the CB or blow the fuses.

3) As required in MS IEC, together with the Smart ATS Controller, these Automatic Transfer Switches function perfectly without much complications. The ATS Smart controller has functions for voltage, frequency and timer settings for types for application. Engine start / stop and other functions are also available from these Smart Controllers.

4) Comparison to other types of change-over devices as ATS.

PART 2 - ATS & GENERATOR MICROPROCESSOR BASED CONTROLLERS

)Do you find it difficult to troubleshoot these systems due to non standard wiring and components? What can be done to overcome these problems? Are you still using outdated hard wiring, relays and timers control systems?

2) Advantages of micro processor based controllers. One controller - simplified standard wiring - easy to install and troubleshoot. Understand generator systems and how to design control systems accordingly. AMF, Peak Load Shaving, Auto Synchroniser, Bus Tie etc

3) ATS & Auto Changeover systems.
Advantges of micro processor based ATS & Auto Changeover systems.
Automated control system for two two ACB (Open Transition/Close Transition)
Automated control system for two incomer and Bus Tie system
Automated control system for two incomers, bus tie and generator systems

4) Remote monitoring of generators.
Ability to locate, control and observe generator operation remotely.
Internet Over Things. IOT application.

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SPEAKER'S PROFILE

Mr Ritesh Lutchman is currently the Senior Sales and Marketing Manager at Wisepro Sdn Bhd. He has been working in the industry for the past 15 years and has gathered great experience in the design, installation, troubleshooting and site works for the industries mentioned above. He has also received extensive training on the ATS and Generator microprosessor based controller operation and application at Smartgen HQ in China, Lightning Protection at Dehn headquarters in Germany, power factor capacitors, reactors and harmonics at Shizuki headquarters in Japan and ATS applications and troubleshooting at Vitzrotech headquarters in Korea. He graduated from the University of Cape Town with a Master's Degree in Electrical Engineering.