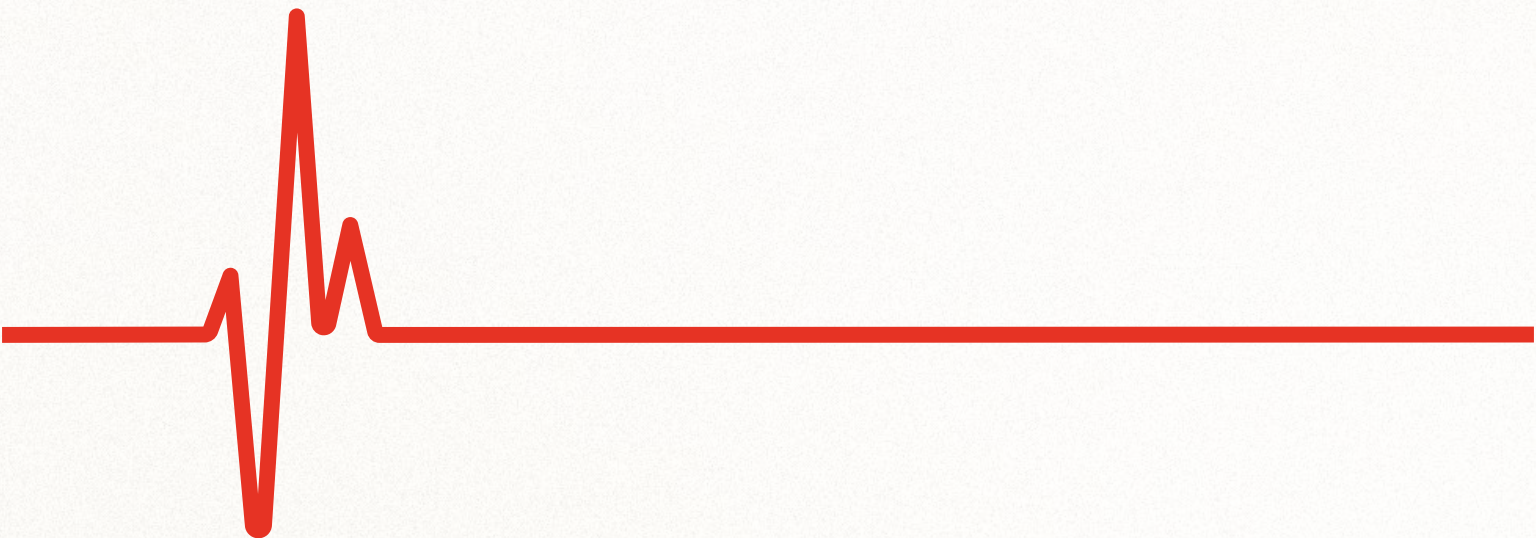


BROCHURE





Current Transformer



Protection Relays



Power Factor Correction



Automatic Transfer Switch



Janitza[®]

Sinexcel



bimed

POWER QUALITY MANAGEMENT SYSTEM

Sinexcel

Power Quality Solutions

Static VAR Generator (SVG)



- Silicon Carbide power conversion technology
- Continuous step-less power factor regulation to 0.99
- Compensates for lagging & leading power factor
- Compact & high efficiency
- Maintenance free, safe & easy to use
- Modular upgradable design

Active Harmonics Filter (AHF)



- Silicon Carbide power conversion technology
- Intelligent FFT to avoid resonance
- 3 level IGBT design for high accuracy & efficiency
- Complete filtering from 2 to 50 order harmonics
- Compliance to IEC61000-3-6/IEEE519 & ER G5/4
- Marine certification available

Active Voltage Conditioner (AVC)



- Real time compensation of voltage Sag & Swell
- Avoid unscheduled downtime
- Long life high capacity ultra capacitors
- High efficiency design
- Low operational & capital expenses

Smart Grid & Electric Vehicle Charger

Sinexcel Uninterruptible Power Supply



- Ultra-high efficiency
- Applicable for industrial application
- Up to 2400KVA
- Smart and modular



Sinexcel EV Charger



- Supports multiple standards
- AC and DC fast charging
- For homes, commercial and charge stations
- For cars and trucks



J.Schneider Uninterruptible Power Supply

- Maintenance-free because of long-life ultra-capacitors
- Mikrocontroller based charging and discharging of the ultra-capacitors
- Control of operation and status of charge with potential-free contacts and LED
- Capacity extension possible with external capacitor extension modules



MH & Vishay Products

MH & Vishay Detuned Reactors

- Protects capacitor against harmonic
- Long service life with minimal maintenance
- Aluminum or copper winding
- Available in 6%, 7%, 13% and 14%



Vishay Power Factor Correction Reactors

- LV Power Capacitor (Available in 230V, 440V, 525V and more)
- Dry & Oil type Capacitors
- Type tested to IEC60831-1:2014
- Indoor and Outdoor Pole-top Capacitor
- JKR EMAL Listed



MH & Vishay Power Factor Controller

- Intelligence with communications
- For LV and MV capacitor banks
- Enhanced protection



SMART ENERGY MANAGEMENT SYSTEM

Janitza Monitoring Solutions For Energy & Power Quality



Hardware

- Multifunction Meters
- Power Quality Analyzers
- Energy Meters

Communications

- Ethernet/Modbus Gateway
- Onboard Ethernet Ports
- Various Protocols supported

Software

- GridVis PQ & Energy Monitoring & Management Suite

Peripherals

- Multi Input / Output Controller
- Signaling converters

Janitza
electronics



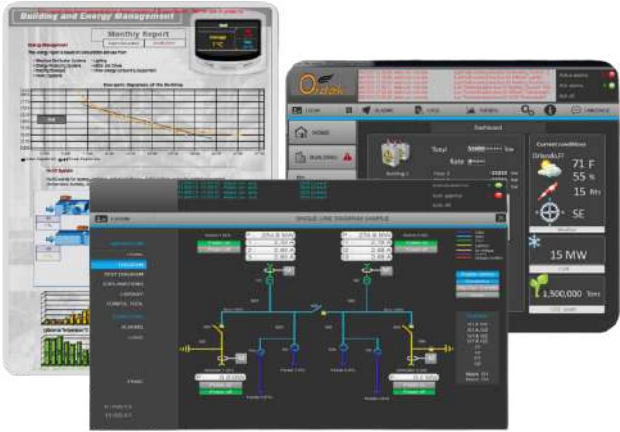
Energy Sub-Metering Solutions

MH Sferre Energy Metering Solutions



Ordek Sub-Billing Software Solutions

- Din rail mount based energy metering for single and 3-phase electrical systems
- Class 0.5s for greater accuracy
- Pulse output and RS485 communications interface
- Sub-billing software solutions for complete energy consumption billing requirements
- Multi-tariff feature
- Sub Tenant billing & auto Report generation



GIC Industrial Automation



- Digital Timers
- Motor Control Timers
- Synchronous Timers
- Digital Time Switches
- Hour Meter / Digital Hour Meters
- Impulse Counters
- Rate Indicator & Totalizers
- Programmable Logic Controllers
- Protocol & Interface Converters
- Power Supplies
- Temperature Controllers



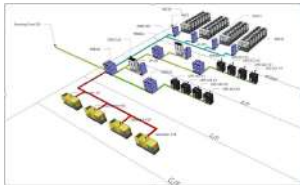
Ordek / DaxView SCADA & BMS Solutions

Features

- Live View of electrical and mechanical system status
- Power Quality trending & historical chart on key parameters
- Dashboard View of building energy profile & summary
- Full functional control and monitoring
- Suitable for commercial and industrial applications

Benefits

- Flexible and Configurable to meet requirement from clients
- Scalable to handle large count of interfacing instrument
- Expandable to add functional modules
- Open Standard supporting major protocols and data export



MH Protection Relay

- Available for**

 - Over Current
 - Earth Fault
 - Combined OC/EF
 - Earth Leakage
 - Over/Under Voltage
- IDML/DTL Relay with tripping curve selection
 - Mechanical Trip Button (MTB) fault indication System comply ANSI 86 Lockout Relay
 - OLED/LCD/LED display options
 - 4 tripping history with build in clock
- Integrated surge arrestor
 - Optional/Build-in Modbus RTU RS485
 - Passed Stringent Environmental Test based on IEC 60069-2-2 / 60068-2-78 / 60068-2-30
 - JKR EMAL Listed



Industrial Switchgear Switchboard Components

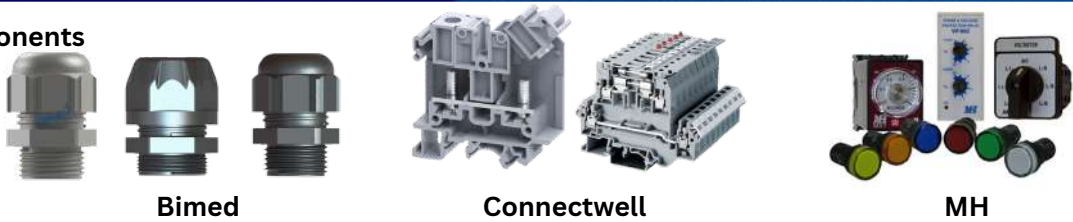
MH Analogue & Digital Panel Meters



MH Current Transformers



Switchboard Components



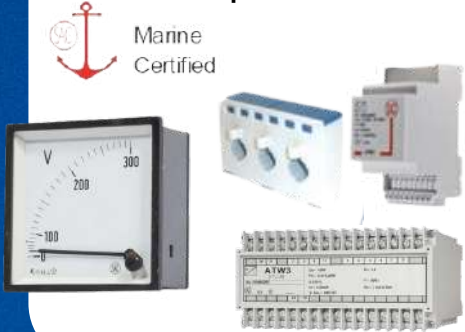
AC&M Digital Panel Meters & Power Transducer



MH Automatic Transfer Switch



SACI Industrial Switchgear Components

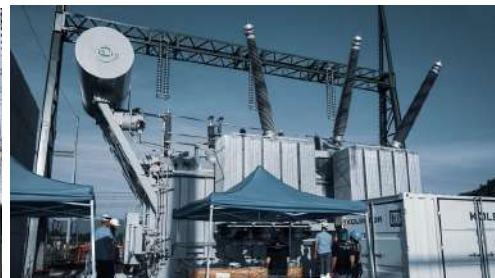


MV/HV Power Quality Solutions



Application

- Shunt Capacitors
- Shunt Reactors
- Harmonic Filter
- Series Capacitors
- Furnace Capacitors
- AC & DC Capacitors for HVDC transmission
- Surge Suppressions for RC circuits
- Power quality improvement solutions can reduce heat, vibration, and noise in AC motors. The result is a reduction in energy expenses, improved machine performance, reliability, and longer life expectancy



Helita Lightning Accessories



Our Helita Pulsar lightning protection solutions offers:

- Active solution that captures the strike earlier than passive solution: wider area of protection
- Cost effective solution : good ratio price / area to protect
- Very little impact on the esthetic of the building



MH Lightning Accessories

- A comprehensive range of lightning protection accessories and fittings from air terminations, bases, down conductors, connectors and earth termination fixtures
- Available for both copper and aluminum alloy based lightning protection solutions
- Meets IEC 62305 and NFC 17 102 Standards
- Lightning protection equipment can be roughly divided into types: power supply lightning protection device, power protection socket, and antenna feeder line protectors, signal lightning arresters, lightning protection test tools, lightning protection devices for measuring and control systems, and ground protectors



Hakel Surge Protection



- IEC Standard for all protection zones
- Protection for power, data, process signal
- For photovoltaic DC and AC protection
- EMC filter and microwave application
- Equipotential bonding, railway voltage limiter



Solar PV Solutions

- Comprehensive Solar PV Solutions for residential, commercial, industrial and large scale solar PV applications. Suitable for self consumption (SELCO), net metering (NEM) and off-grid applications

- Solar PV Modules
- Solar Inverters
- Weather / Environmental Stations
- Solar Monitoring Solutions
- Energy Storage Solutions (ESS)

We provide a complete turn-key Solar PV Solutions ranging from design, consultation, engineering, installation, testing and commissioning of Solar PV installations

Renewable Energy

- Solar Photovoltaic (PV) System Solutions (Large Scale Solar, Net Energy Metering, Self-Consumption, Off-Grid)

Energy Efficiency

- Energy Audit & Engineering Services
- Electrical Energy Manager Services
- Electrical Component Engineer Services
- Green Building Index (GBI) Facilitation



ABOUT US

MUN HEAN IS SPECIALIZING IN DEVELOPMENT AND IMPLEMENTATION OF POWER QUALITY AND ENERGY EFFICIENCY SOLUTIONS, BACKED WITH 40 YEARS OF EXPERIENCES. WITH AN IN-DEPTH KNOWLEDGE AND EXPERTISE IN THIS FIELD, OUR FINE TEAM OF PROFESSIONALS IS CAPABLE OF PROVIDING A SPECTRUM OF SERVICES, WHICH INCLUDES POWER QUALITY STUDY, TECHNICAL CONSULTATION, SYSTEM DESIGNING, INSTALLATION, TESTING, COMMISSIONING AND EXCELLENT AFTER-SALES SUPPORT THROUGH OUR UNIQUE POWER QUALITY AND ENERGY MANAGEMENT SOLUTIONS, FOR EVERY BUSINESS AND APPLICATION NEEDS. THE KEY DIVISIONS REPRESENTED BY MUN HEAN MALAYSIA ARE :



Mun Hean Group Associate Companies :

- Mun Hean Singapore Pte Ltd (Singapore)
- PT Mun Hean Indonesia (Indonesia)
- Mun Hean Vietnam Co Ltd (Vietnam)
- MH Power Myanmar Co Ltd (Myanmar)
- MH Poly-Electromechs, Inc (Philippines)
- MH Electrical Solutions Co Ltd (Taiwan)
- Mun Hean Electrical Engineering (HK) Co Ltd (Hong Kong)
- Mun Hean Hong Fei (Beijing) Technology Co Ltd (China)
- Mun Hean Power Technology (Shenzhen) Co Ltd (China)

