

Test Equipment Portfolio

PRECISION INSTRUMENTATION



ST sifam tinsley

www.sifamtinsley.com

Product Portfolio

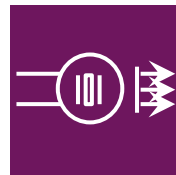
Power Monitoring & Control



Multifunction Meters, Power/ Energy Meters, Power Quality Analyzers



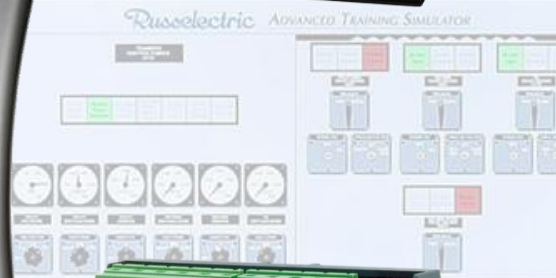
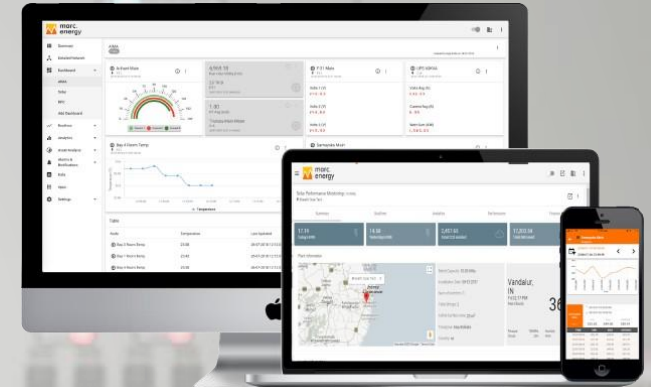
Energy Management & Data Analytics System Software



Electrical Transducers & Synchrosopes



Power Monitoring Products



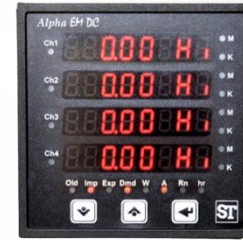
PROMOTIC



Multifunction meters



Multifunction meters Product Range



Alpha 10-50

Alpha 10

Alpha 20

Alpha 30

Alpha 50

ANSI Range

Alpha 20A Plus

Alpha 70A Plus

DC Range

Alpha EMDC

Alpha 6000

Network Meter
Range

Alpha LM1410

Alpha CM12

NEW
LAUNCH



LED Multifunction meter: Alpha 10/20/30/50 MFM

- ❑ Variants as per measurement Parameters (VAF, Power & Energy)
Voltage, Current, Frequency, Power(Active/Reactive/Apparent), Power Factor, Energy(Active/Reactive/Apparent)
- ❑ Onsite programmable with Capacitive Touch Keys
- ❑ 3 Line 4 Digit Bright LED Display
- ❑ RS485 Modbus & Relay Output



Alpha 20A Plus & Alpha 70A Plus

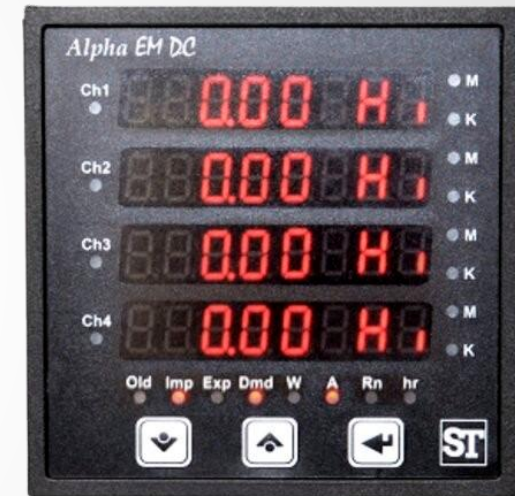
- ❑ ANSI Standard MFMs
- ❑ 2 Variants as per measurement Parameters



DC Energy Meter Alpha EMDC/EM6000



- Single/ Four channel support with RTC based data storage
- Load profile analysis with event logging
- Isolated input voltage and current channels
- Measurement of VA, Power, Energy, Demand etc.
- RS485 Modbus Communication with 2/4 Relay output



Multiload Meter: Alpha ML1410



- ❑ Monitoring: 12 Loads in 1-Ph & 4 Loads in 3-Ph Network
- ❑ Residual current monitoring and tripping
- ❑ Prepaid Tariff based tripping & Health Monitoring of 3-Ph Load
- ❑ Data Logging, RTC (Real Time Clock)
- ❑ Accuracy class option (Class 0.5 as per IEC 62053)
- ❑ RS485 Modbus Communication with Relay output



Alpha CM12/CM30/CM60 MFM



Compact VAF Meter

- ❑ 2x Variants - Direct 30A or 60A & CT input with RJ12
- ❑ TRMS measurement for V, A & Hz in 1-Ph Network
- ❑ Dual line four digit ultra bright LED display
- ❑ RS485 Modbus Communication (Optional)



PQM/PQA Product Range



Power Quality Meter

Alpha 70

ND30
IoT/BACNET/PNET

NR30



Power Quality Analyzer

ND45



Handheld Power Quality Analyzer

NP45

Power Quality Meter: Alpha 70

- ❑ Energy class 0.5S as per IEC Std 62053-22
- ❑ 6 Time Zones freely configurable as per user need
- ❑ Individual harmonics up to 56th measurement
- ❑ Custom colour setting for each phase via display & MODBUS
- ❑ RS485 Modbus & Ethernet MODBUS TCP/IP Communication



Advanced Power Network Meter: ND30



- ❑ Versions Available: IoT (MQTT), BACNET, Profinet
- ❑ 8x Parameter & 10 Pages
- ❑ 2x relays with Condition Alarm
- ❑ RS485 Modbus & Ethernet Communication
- ❑ Inbuilt memory 32GB for Data logging
- ❑ Inbuilt web server (WWW) & FTP server



Advanced Power Network Meter: NR30

DIN Mounted- MFM

- DIN Type Mounting MFM with same feature of ND30
- Digital Input Relay output & Analog output (NR30)
- RS485 Modbus Communication
- Ethernet Communication Option (NR30)
- IOT/ BACNET/ PNET versions (NR30 Series)



Power Quality Meter: ND45



- ❑ Measurement & recording of electric parameters
- ❑ Compliance to EN 50160, EN 61000-4-30 acc. to Class A
- ❑ Current and voltage harmonics & interharmonics
- ❑ Power Quality Events Monitoring (Sag, Swell, Interruptions & Flicker)
- ❑ IEC 60870-5-104 communication protocol (ND45PLUS)
- ❑ UL Certified (ND45)



Handheld Power Quality Analyzer: NP45

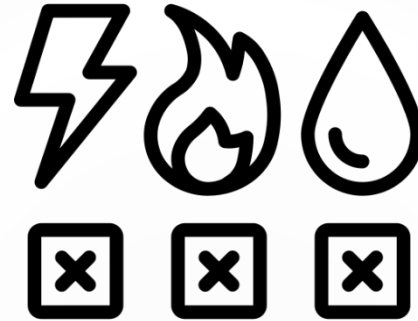
- ❑ 5.6" TFT color screen. 640 x 480 pixel.
- ❑ Waveform real-time display (4 voltages/4 currents).
- ❑ Half cycle RMS measurement (voltage and current). Measurement of TRMS currents upto 6000 A (with additional probes mode).
- ❑ Measurement in 1-phase and 3-phase systems (3 & 4-wire).
Measurement of voltage. current. harmonics. power. energy. inrush current. flicker and other.
- ❑ Graphical presentation of data in a waveform and vector diagram.
Record of events: dips. swells. Over voltages.



MFM Application



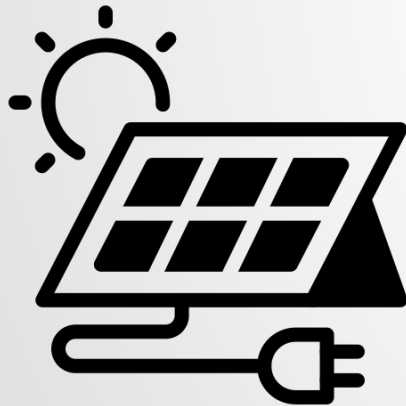
Data Centers



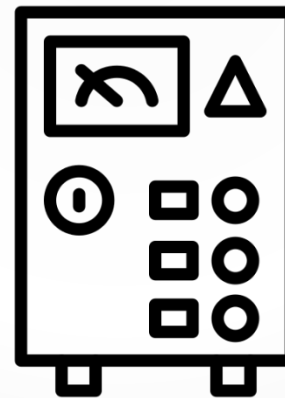
Utilities



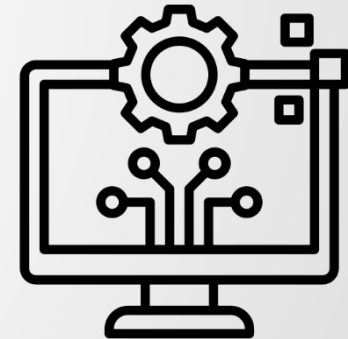
Energy Monitoring



Renewal Source/DC
Application



Electrical Panel &
Switchgear



Digital
Transformation

Success Story

SanRemo S.A de C.V, Mexico based Company, A manufacturer specialized in electrical distribution and power transformers, with its own testing laboratory, faced the challenge of managing multiple instruments for different parameters — and our solution simplified it all.



Success Story

Wyman Gordon A leading forging and precision engineering company that manufactures high-strength, high-performance components primarily for the aerospace, energy, and industrial markets.

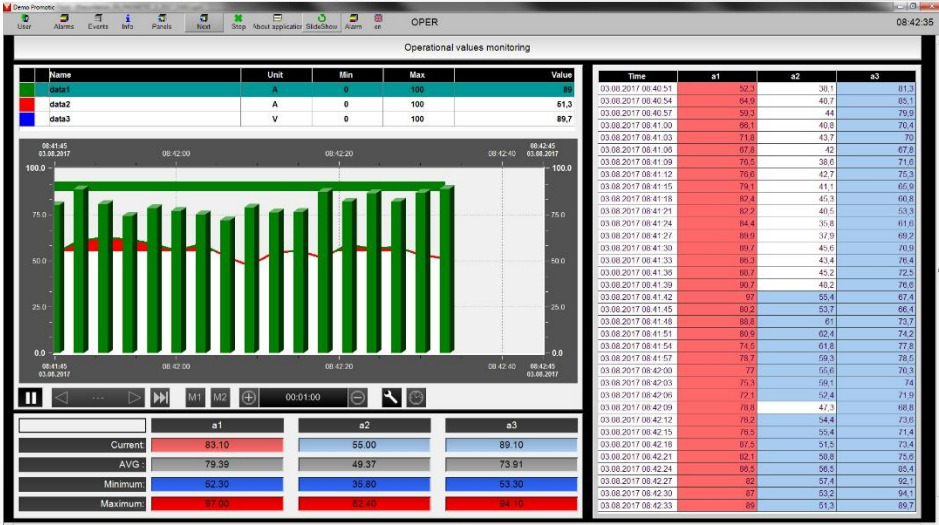
- ❑ Customer has purchased 11 qty of ND30IoT meters for his electrical panels for power monitoring purposes
- ❑ All his meters will be connected to a software to visualize this consumption remotely using an Energy management software.
- ❑ User plans to upgrade this setup to more meters once this initial project is successful.





Software: Promotic SCADA

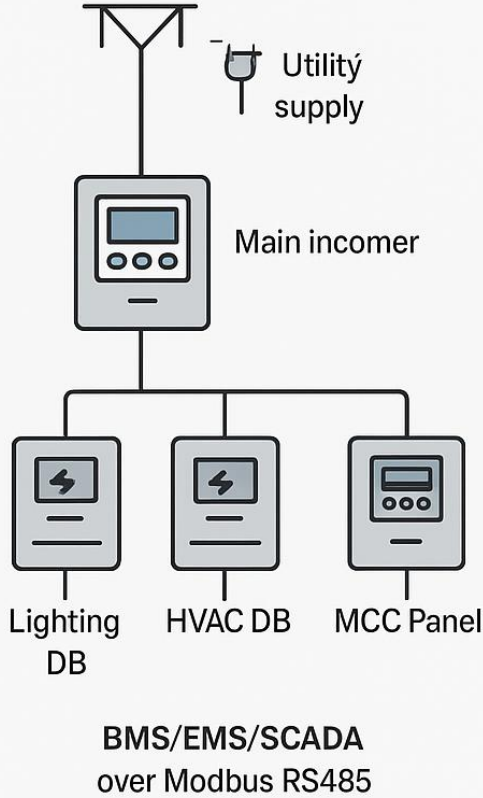
- ❑ Group Company Microsys: Czech Republic
- ❑ Promotic Features:
 - ❑ Realtime Dashboard
 - ❑ Real time Analytics
 - ❑ Trends Generations
 - ❑ Alerts generation
 - ❑ Report generation



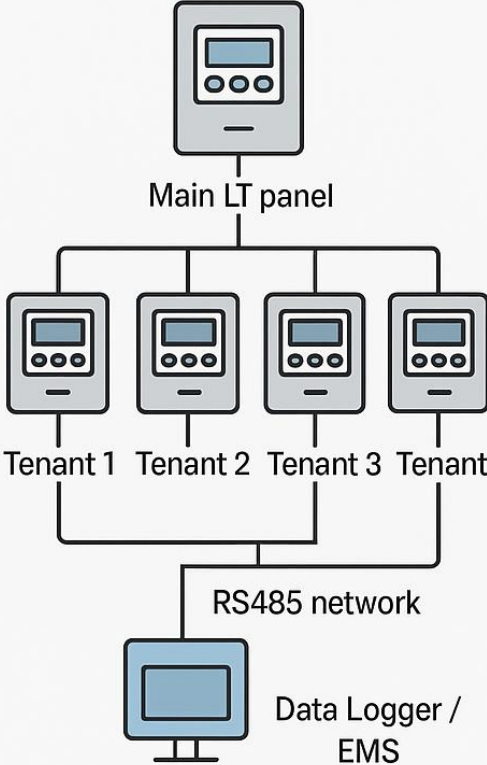
Application Areas MFM+ Software/SCADA

- Identify power factor issues.
- Detect equipment drawing abnormal current.
- Schedule predictive maintenance by observing load trends.
- Prevent downtime through early fault detection (overload, unbalance, THD)

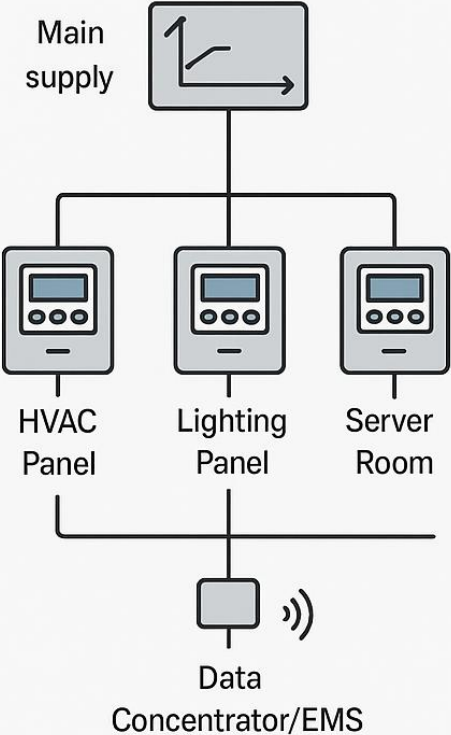
FACILITIES MAINTENANCE



TENANT METERING



SUB-METERING



Upcoming Products



Load Manager

Alpha AP1340

Alpha AP1460

Alpha AP1480



Power Quality Meter

ND31 Plus



Compact MFM

Alpha CM30 &
CM60



DIN MFM (MID
Approved)



Electrical Transducers Products



AC Transducers

Theta 10A

Theta 10V

Theta 20Ac

Theta 20V



Frequency Transducer

Theta Hz

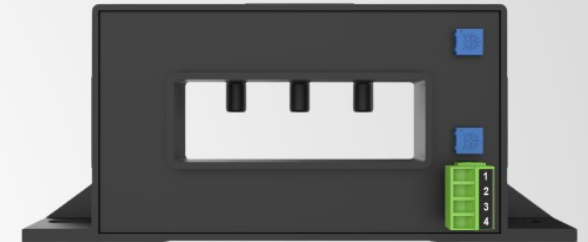


Programmable Transducer

Theta 30P

P43

Theta M



Hall Effect Sensor

Theta HCS



Basic Series: Theta 10/20/Hz



- Self Powered
- Compact transducers without display
- Avg & TRMS Measurement
- Single and dual analog output
- Power ON & Output indications



Advanced Transducer: Theta 30P



- Compact Programmable transducers
- Options of with & without display
- Single and dual programmable analog output
- RS485 Modbus
- Power ON & Output indications
- TRMS Measurement



Multifunction Transducer: Theta M

- ❑ Fully on-site programmable input PT & CT ratio.
- ❑ Detection and signaling of incorrect phase sequence.
- ❑ Programmable parameters through the RS485 interface or USB when using eCon configuration software.
- ❑ Onsite selectable analog output range (0...20mA/4...20mA/-20...+20mA).
- ❑ Fast and easy installation on DIN RAIL or onto a wall or in a panel using optional screw hole bracket.
- ❑ Connection Terminal : Conventional Screw type.



Advanced Transducer: P43



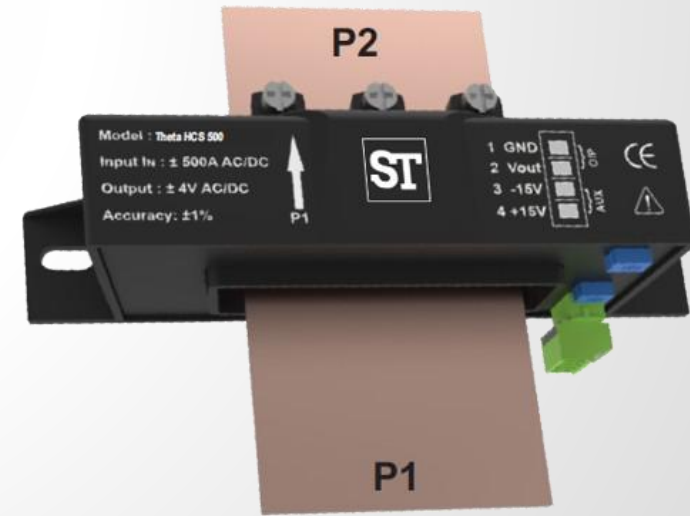
- 4-in-1 programmable transducer
- Fully onsite programmable Input & Output
- Isolated Analog & Relay Output
- True RMS and THD measurement
- Fast Response time < 300 msec



Hall Effect Sensor: Theta HCS



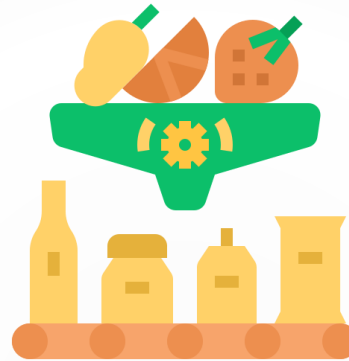
- Low Insertion Losses
- Low Power Consumption
- Only one design for a wide current rating range
- Reverse Supply Protection
- High immunity to external interference



Electrical Transducers Application



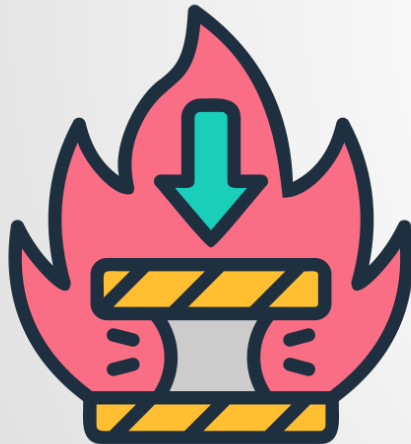
Process Monitoring



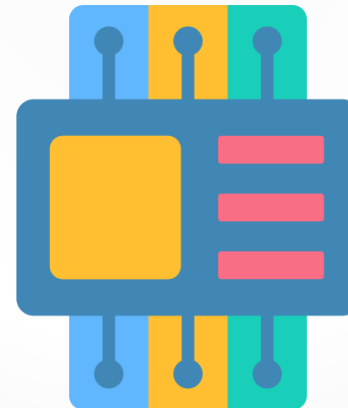
Process Food Industry



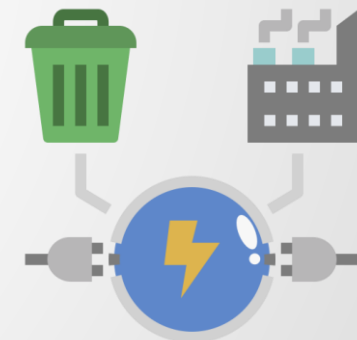
Close Loop Process



Forging Industry



PLC & Industrial Automation



Renewable Industry

Synchrosopes



- ❑ Automatic switching of three-phase generators for parallel operation with the grid or with other generators with rated frequency of 50 or 60 Hz
- ❑ Available in both Analog & Digital type.
- ❑ ANSI Digital Synchroscope displays touchscreen interface & easy navigation.

