

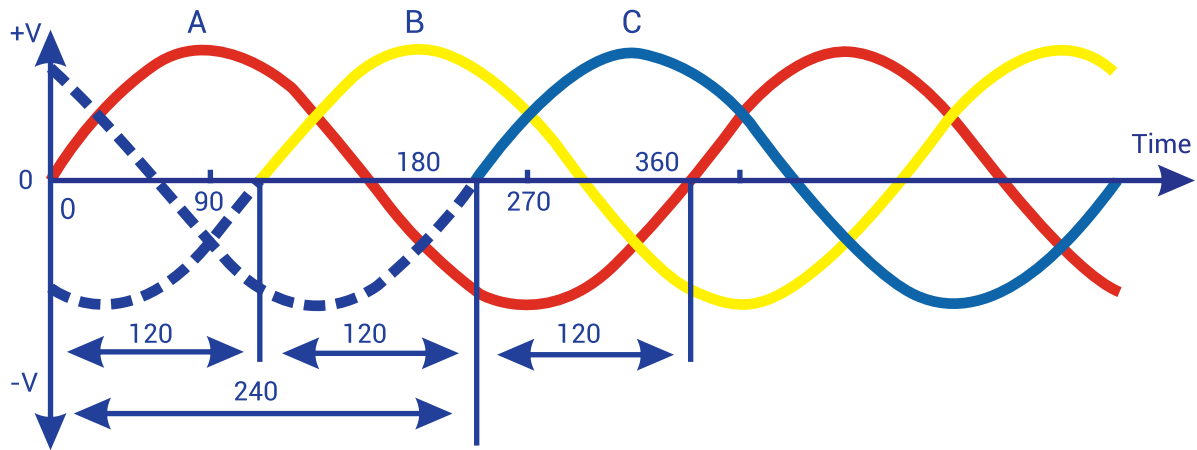
masibus®














A Sonepar Company

Electrical Transducer & Meters



POWER PARAMETERS



| | | | |
|---|------------------------------|---|------------------------|
|  | AC Voltage - V |  | Reactive power-KVAR |
|  | AC Current - A |  | Apparent Power-KVA |
|  | Frequency - Hz |  | Active Energy -KWh |
|  | Power factor - $\cos \theta$ |  | Reactive Energy- KVARh |
|  | Phase Angle - θ |  | Apparent Energy- KVAh |
|  | Active power -KW |  | Maximum Power Demand |
|  Harmonics & THD | | | |

Demand

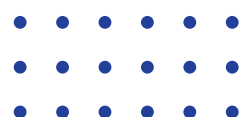
- Maximum demand register (kW or kVA). This is the maximum power value, usually the average of 15 minutes, reached during the billing period (this average time may vary depending on the country). Once the value is higher than the contracted power, the customer will pay a penalty on the electricity bill.

Harmonics & THD

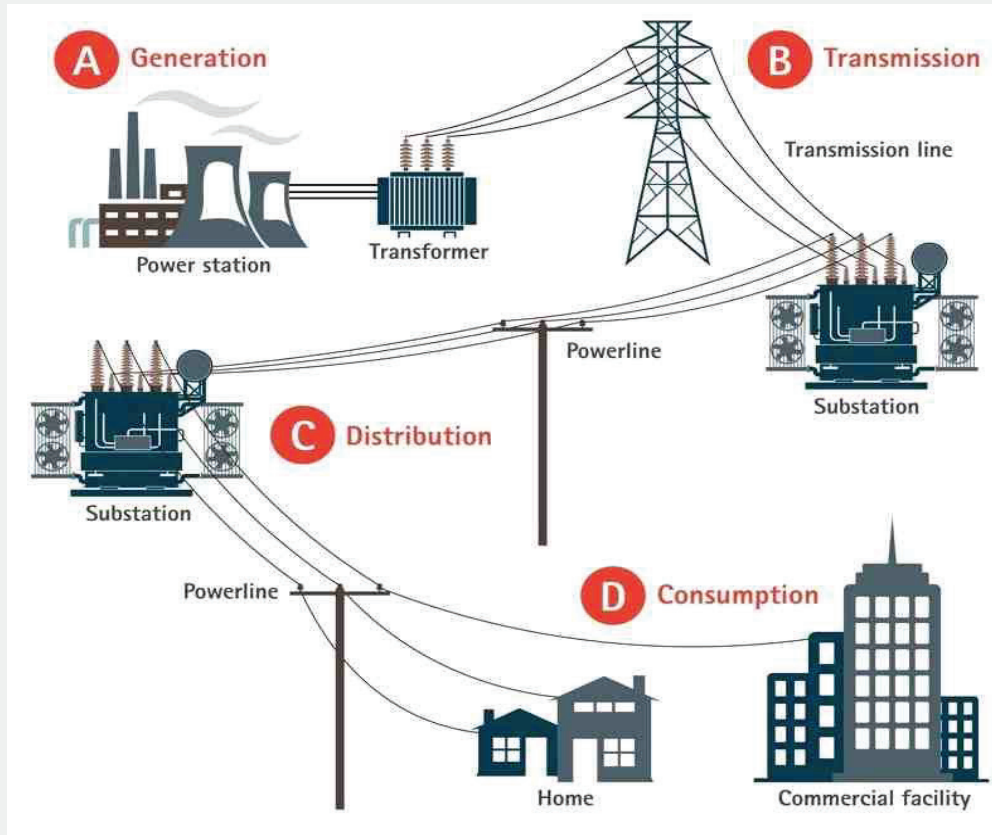
- In an electric power system, a harmonic of a voltage or current waveform is a sinusoidal wave whose frequency is an integer multiple of the fundamental frequency. Harmonic frequencies are produced by the action of non-linear loads such as rectifiers, discharge lighting or saturated electric machines.
- Total harmonic distortion (THD) is the amount of harmonics on a line compared to the line fundamental frequency, eg. 50Hz or 60Hz. The THD considers all of the harmonic frequencies on a line.

Accuracy Class

- Since Accuracy depends on the load of the system, IEC/IS have developed different standards to define accuracy under different load conditions, known as "Accuracy Class"



BENEFITS OF POWER MONITORING



POWER SYSTEM



It identifies the inefficiency in the system



It notifies about the impending maintenance



It will help reduce peak demand



It ensures safety



Environmental benefits



It saves cost



PDA/PDV - PROGRAMMABLE AC CURRENT / VOLTAGE TRANSDUCER



PDA - PROGRAMMABLE CURRENT TRANSDUCER

PDV - PROGRAMMABLE VOLTAGE TRANSDUCER

USP

- High accuracy class 0.2 as per IEC60688 standard
- Programmable input rating for PDA, 1A & 5A site selectable and for PDV, 57.7V to 415V AC site selectable
- Expanded or Suppressed input & output ranges for inrush current measurement
- Common inventory for input current (1A/5A) or Voltage (57.7V to 415V AC) ranges as well as for selectable output types (4-20mA DC, 0-20mA DC, 0-10V DC, 0-5V DC, 1-5V DC)

TECHNICAL SPECIFICATIONS

AC Current Input

| | |
|----------------------------|--|
| Nominal Input Current (In) | 1A to 5A AC |
| Measuring Current Range | 0 to 150 % In |
| Burden | <0.2VA at In |
| Maximum Overload Current | 2 x In continuously 20 x In for 1 s, with up to 10 repetitions at 100 s intervals |

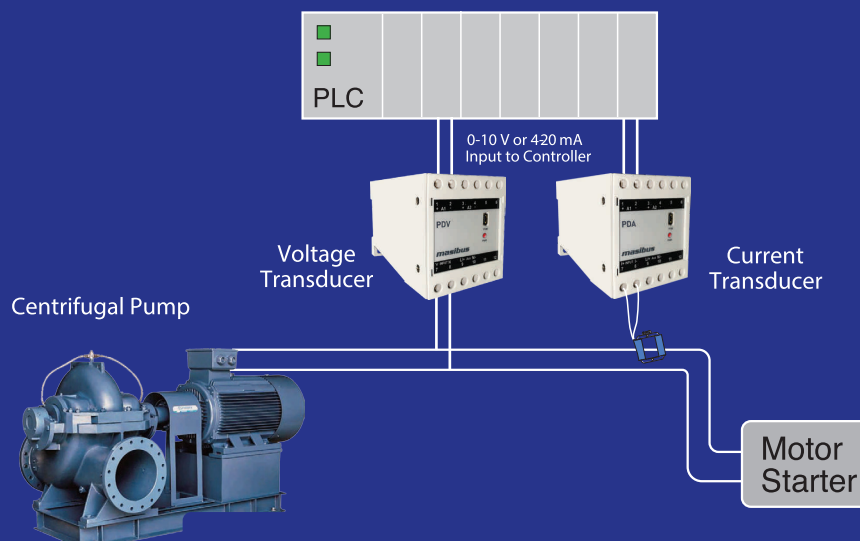
AC Voltage Input

| | |
|---------------------------|--|
| Nominal Input Voltage(Un) | 57.7 V to 415 V AC |
| Measuring Voltage Range | 0 to 130 % Un |
| Burden | <0.3VA at Un |
| Maximum Overload Voltage | 1.3 x Un continuously 2 x Un for 1 s, with up to 10 repetitions at 10 s intervals |
| CT/PT Ratio | 1 to 9999.999 Programmable |
| Frequency | 45 to 65 Hz |

PDA/PDV - PROGRAMMABLE AC CURRENT / VOLTAGE TRANSDUCER

TECHNICAL SPECIFICATIONS

| | |
|-------------------------------|--|
| Power Supply | Universal aux. supply : 85-265VAC, 50/60Hz or 100-300VDC Burden : < 5.5VA (2.2W) |
| | DC aux. Supply : 20-60VDC Burden : < 2.2W |
| Analogue Output | |
| No. of Outputs | 2 |
| Output Type | 4-20mA, 0-20mA, 0-10V, 0-5V, 1-5V DC |
| Maximum Load Resistance | $\leq 750 \Omega$ for 20 mA, $\geq 2 \text{ k} \Omega$ for 10 V (for each output) |
| Response Time | <500mS |
| Ripple | <0.4% peak to peak |
| Isolation | 3KV AC for one minute |
| Impulse voltage tests | 5 kV, 1.2/50 uS as per IEC60688 |
| General Specifications | |
| Operating Temperature | 0 to 55 °C |
| Relative Humidity | 25-95% non-condensing |
| Ingress Protection | Housing : IP40, terminals : IP20 |
| Mounting Type | DIN-Rail |
| Dimension (in mm) | 71H x 61W x 112D |
| Connector Type | Metal screw |
| Conductor Size for Terminals | $\leq 4 \text{ mm}^2$ |
| Configuration Port | Mini USB type |



CURRENT MONITORING FOR SPIN PUMP APPLICATION

MULTIFUNCTION TRANSDUCERS



MFT20



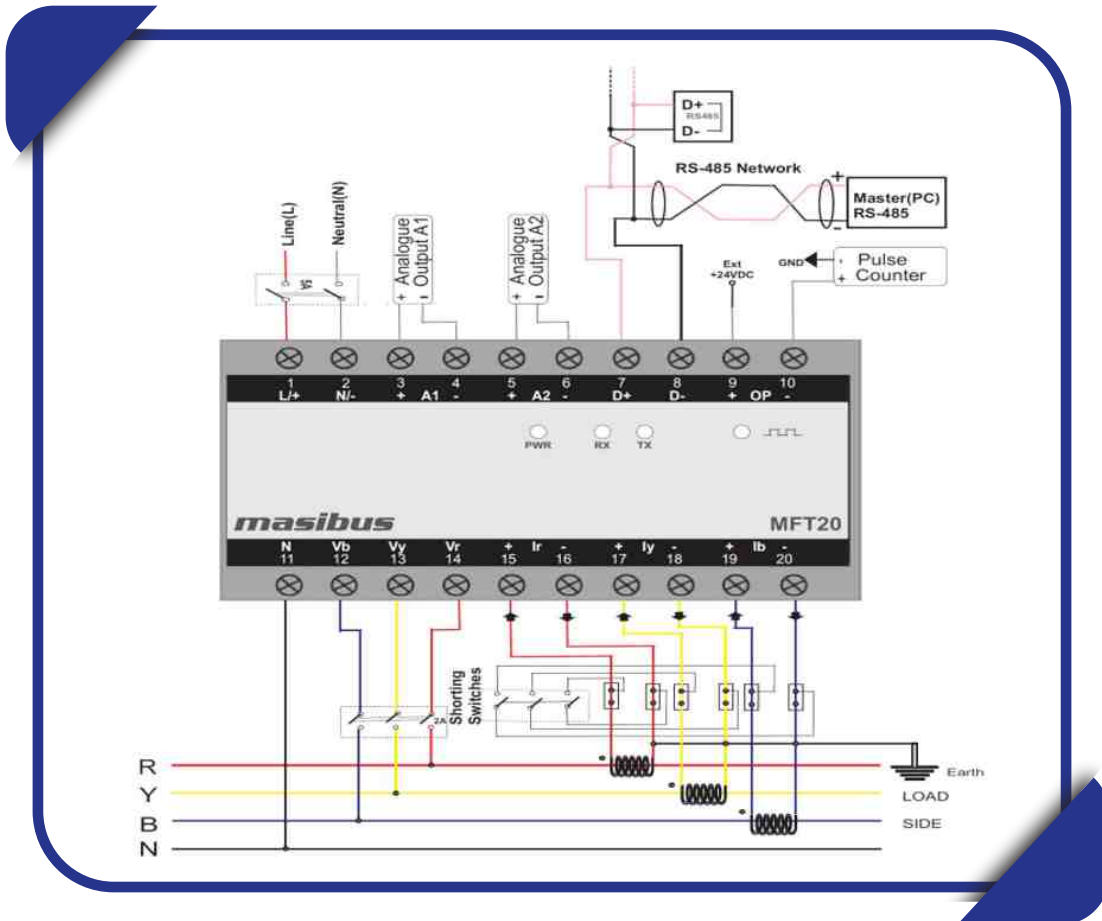
MFT



USP

- Available in accuracy class 0.5 or 0.2 as per IEC 60688 standard
- EMI/EMC compiled as per IEC 61326-1 standard
- 28 Electrical parameters can be mapped to analogue O/P
- User Assignable Modbus Registers map

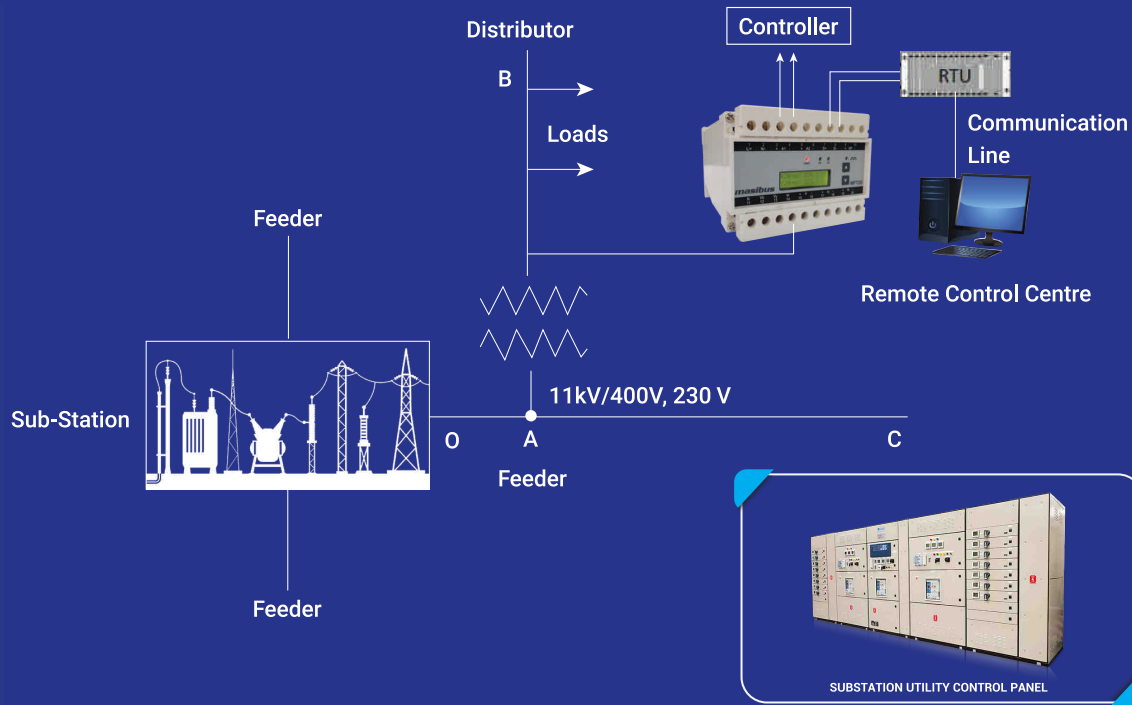
CONNECTION DIAGRAM



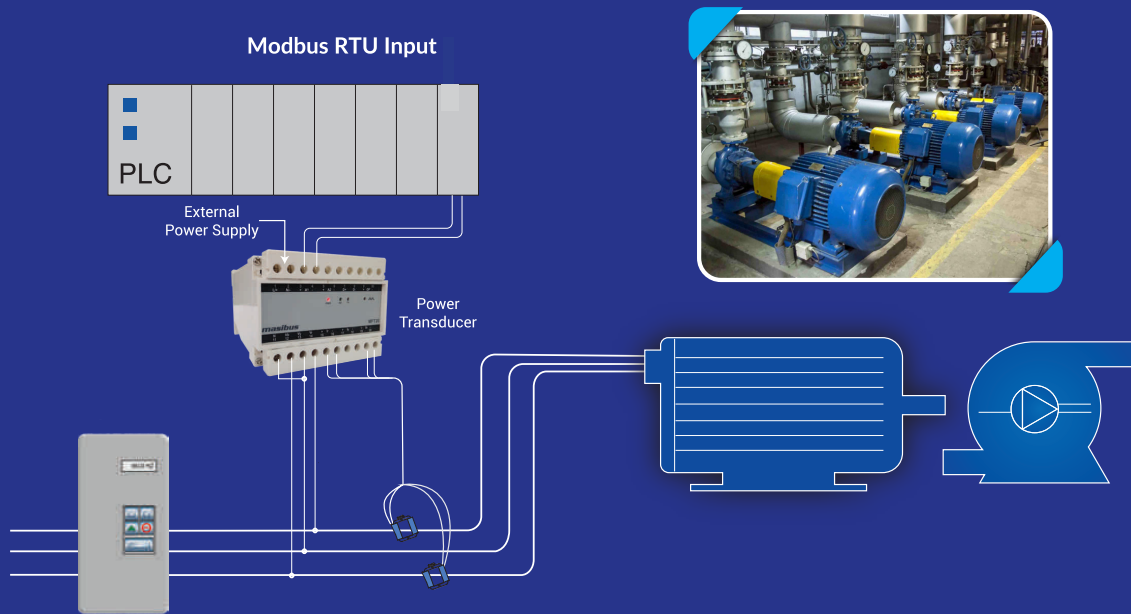


| TECHNICAL SPECIFICATIONS | |
|-------------------------------|---|
| System Type | 3Ph4W / 3Ph3W (Site selectable) |
| AC Current Input | |
| Nominal Input Current (In) | 1A / 5A AC Site selectable |
| Measuring Current Range | 0.01A to 6A |
| Burden | <0.2VA per phase |
| AC Voltage Input | |
| Nominal Input Voltage(Un) | 63.5VL-N to 240VL-N |
| Measuring Voltage Range | 20VL-N to 300VL-N (34VL-L to 520VL-L) Self Powered : 63.5VL-N to 240VL-N |
| Burden | <0.2 VA per phase |
| CT/PT Ratio | 1 to 9999.999 Programmable |
| Frequency | 45 to 65 Hz |
| Standard Compliance | IEC 60688, IEC 61326-1 |
| Power Supply | Aux. Powered 85-265VAC/ 100-300VDC Burden : < 3VA (Without Analog O/P) < 7VA (With Analog O/P) |
| Analogue Output | |
| No. of Outputs | 2 (MFT20), 4 (MFT) |
| Output Type | 4-20mA, 0-20mA, 0-10V, 0-5V, 1-5V DC |
| Maximum Load Resistance | < 550 Ω for mA O/P > 2 k Ω for V O/P |
| Response Time | < 600mS |
| Ripple | <0.4% peak to peak |
| General Specifications | |
| Operating Temperature | -10 to 60°C |
| Relative Humidity | Up to 95% non-condensing |
| Ingress Protection | Housing : IP40, terminals : IP20 |
| Case Material | ABS |
| Mounting Type | DIN-Rail mounting / Wall mounting |
| Dimension (in mm) | 70H x 100W x 112D |
| Connector Type | Metal screw |
| Terminations | Metal screw can accept up to two 2.5 mm ² wire or single 4.0 mm ² wire |

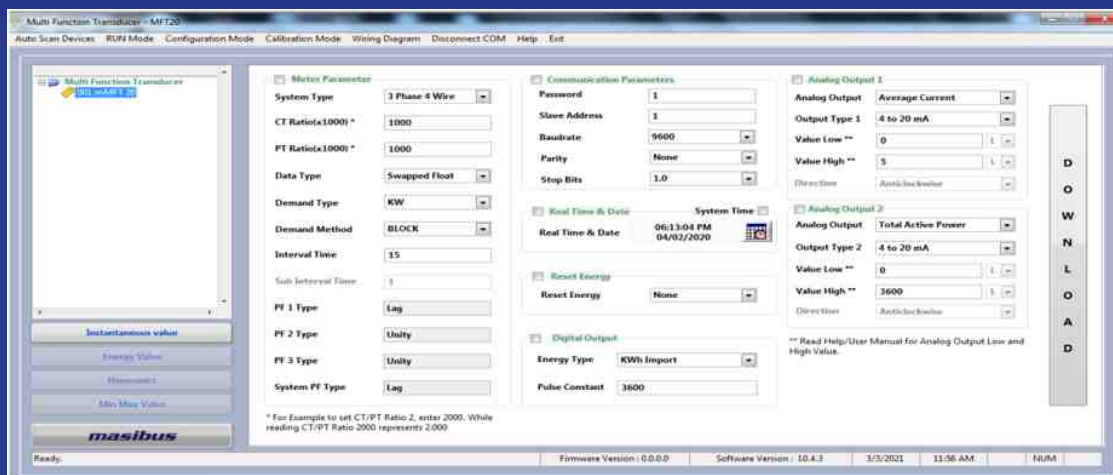
FEEDER MONITORING IN UTILITY SUBSTATION



POWER MONITORING OF MOTOR & PUMP



FREE CONFIGURATION SOFTWARE FOR MFT



MAPPING PARAMETERS LIST

| SR.NO | AO PARAMETER MAPPING | |
|-------|------------------------|-------------------------|
| | 3P4W | 3P3W |
| 1 | System Frequency | System frequency |
| 2 | R Phase PF | - |
| 3 | Y Phase PF | - |
| 4 | B Phase PF | - |
| 5 | System PF | System PF |
| 6 | R Phase Voltage | RY Phase Voltage |
| 7 | Y Phase Voltage | BR Phase Voltage |
| 8 | B Phase Voltage | BY Phase Voltage |
| 9 | Average Voltage | Average Voltage |
| 10 | R_Y Phase Voltage | - |
| 11 | B_R Phase Voltage | - |
| 12 | B_Y Phase Voltage | - |
| 13 | R Phase Current | R Phase Current |
| 14 | Y Phase Current | - |
| 15 | B Phase Current | B Phase Current |
| 16 | Average Current | Average Current |
| 17 | R Phase Active Power | RY Phase Active Power |
| 18 | Y Phase Active Power | - |
| 19 | B Phase Active Power | BY Phase Active Power |
| 20 | Total Active Power | Total Active Power |
| 21 | R Phase Reactive Power | RY Phase Reactive Power |
| 22 | Y Phase Reactive Power | - |
| 23 | B Phase Reactive Power | BY Phase Reactive Power |
| 24 | Total Reactive Power | Total Reactive Power |
| 25 | R Phase Apparent Power | RY Phase Apparent Power |
| 26 | Y Phase Apparent Power | - |
| 27 | B Phase Apparent Power | BY Phase Apparent Power |
| 28 | Total Apparent Power | Total Apparent Power |



2330 & 2310 - VAF METER / VOLTMETER / AMMETER / FREQUENCY METER



2310



0.56" [14mm] height seven segment
4 digit, Three line display(2330)
4 digit, Single line display(2310)



2330

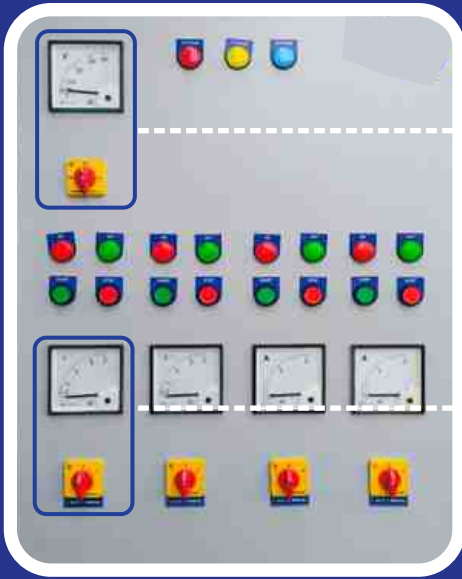
USP

- 1A/5A field selectable CT
- RPM measurements to monitoring the speed of motors, conveyors, turbines and other rotating equipments
- Run hour & power interruption count
- Maximum voltage and current value

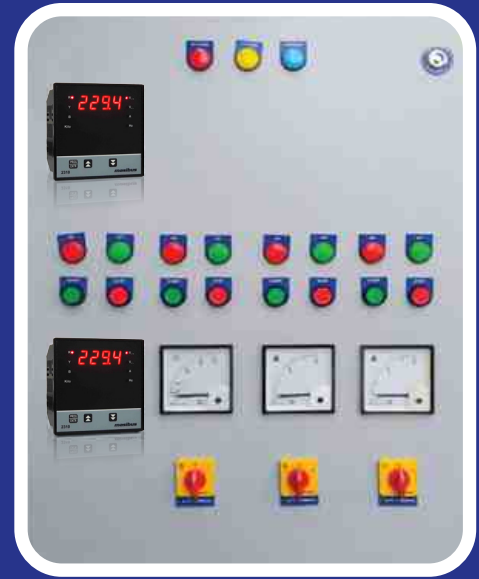
TECHNICAL SPECIFICATIONS

| | |
|----------------------------|--|
| System Type | 3P4W / 3P3W /1P2W |
| AC Current Input | |
| Nominal Input Current (In) | 1A to 5A |
| Measuring Current Range | 50mA to 6A |
| Burden | < 0.25VA per phase |
| AC Voltage Input | |
| Nominal Input Voltage(Un) | 63.5V L-N to 240V L-N |
| Measuring Voltage Range | 0 to 550V L-N |
| Burden | <0.5 VA per phase |
| CT/PT Ratio | 1 to 9999 Programmable |
| Frequency | 45 to 65 Hz |
| Power Supply | Aux. Powered 90-270VAC, 50/ 60Hz or 100-300VDC Burden : < 3VA |
| Accuracy | |
| Voltage | ± 0.5% of F.S. ± 1 Digit |
| Current | ± 0.5% of F.S. ± 1 Digit |
| Frequency | +/- 0.5% of Reading (>40V Input) |

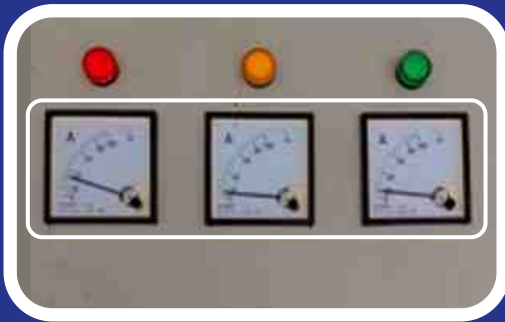
APPLICATION TARGET - VOLTMETER/AMMETER/VAF METER



ANALOG METER + SWITCH



DIGITAL METER - 2310
(VOLTMETER & AMMETER)



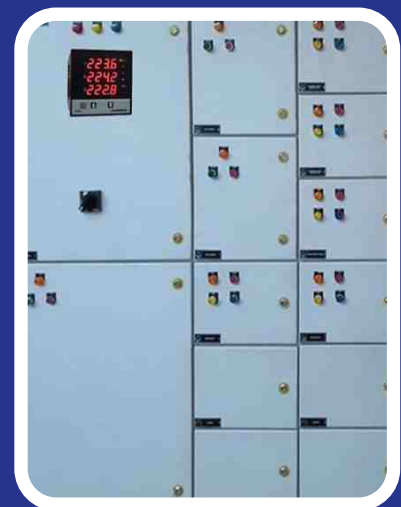
3 NOS. ANALOG AMMETERS



DIGITAL AMMETER - 2330



ANALOG VOLTMETER +
AMMETERS + 2 NOS. SWITCH



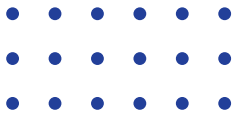
DIGITAL VAF METER - 2330



PM2140 - POWER METERS & EM2140 - DUAL SOURCE ENERGY METER



EM 2140



PM 2140

USP EM2140

- Measure two different (EB & DG) source energy using single instrument
- Phase healthy & reversal Indication
- Display configuration for parameters selection & sequence
- 8-Digit energy resolution with life timer for energy

USP PM2140

- Energy accuracy class 1.0 as per IS 13779/ IEC 62053-21
- Positive energy accumulation even with CT polarity reversal
- Independent programmable relay output for alarm trip

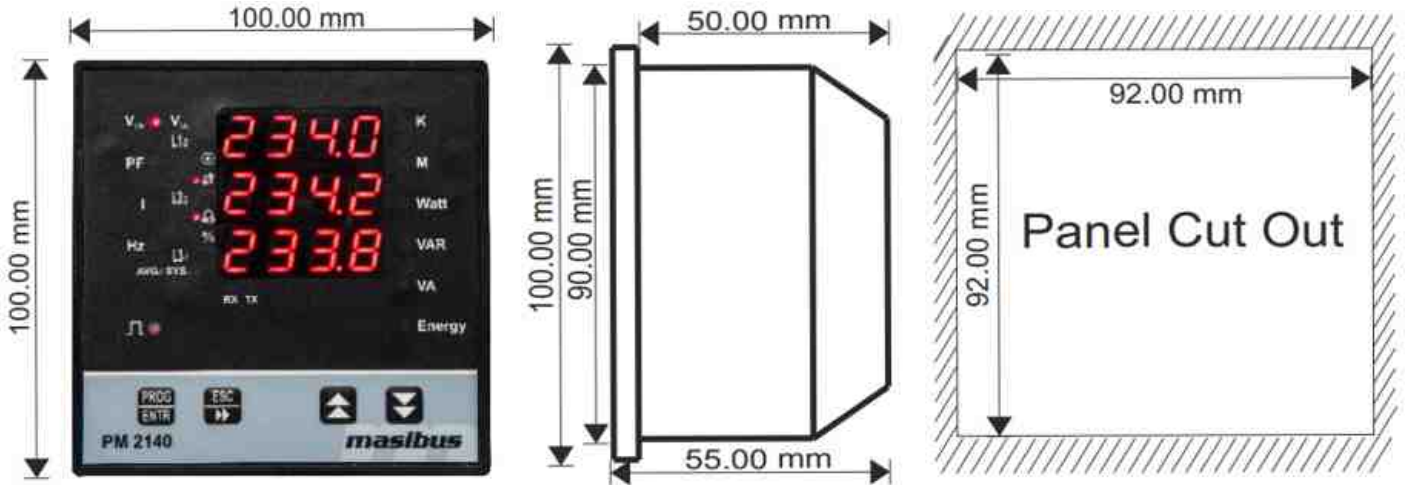


PM2140 & EM2140 - SPECIFICATION

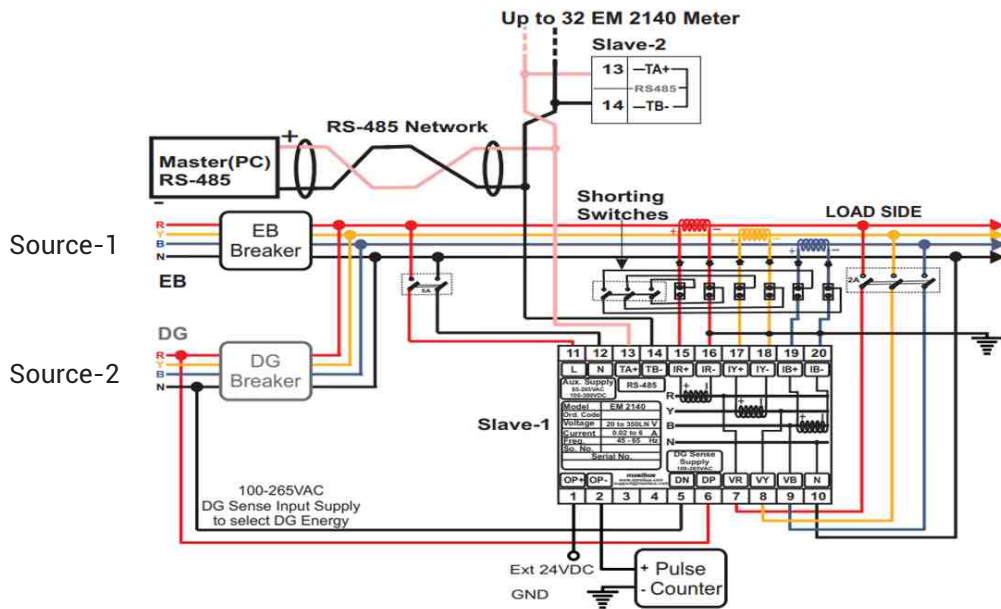


| TECHNICAL SPECIFICATIONS | |
|---|--|
| System Type | 3Ph4W / 3Ph3W (Site selectable) |
| AC Current Input | |
| Nominal Input Current (In) | 1A to 5A |
| Measuring Current Range | 0.02A to 6A |
| Burden | < 0.25VA per phase |
| AC Voltage Input | |
| Nominal Input Voltage(Un) | 63.5V L-N to 240V L-N |
| Measuring Voltage Range | 20V to 350V (L-N) or 34V to 620V (L-L) |
| Burden | <0.5 VA per phase |
| CT/PT Ratio | 1 to 9999.999 Programmable |
| Frequency | 45 to 65 Hz |
| DG Sense | 100-265VAC (to select DG Energy) |
| Power Supply | Aux. Powered 85-265VAC/ 100-300VDC Burden : < 3VA |
| Communication Output RS485 | |
| Interface | Rs485 Modbus RTU |
| Baud Rate | 9600, 19200, 38400 (Selectable) |
| Parity bit | None, Odd, Even (Selectable) |
| Stop bit | 1, 2 (Selectable) |
| Relay Output (Optional) for PM2140 & EM2140 | |
| AC/DC Rating | AC - 250V, 5A, DC - ±30V, 5A |
| Relay Set Point | High Side or Low Side Option |
| Relay O/P Parameters [Field Selectable] | Phase Volt / Avg. Volt / Phase Current / Avg. Current / Sys. Freq. / Phase Watt / Sys. Watt / Phase VAR / Sys. VAR / Phase VA / Sys. VA / Phase PF / Sys. PF |
| Relay Contact Type | SPNO [Factory Default], SPNC [Contact Factory] |
| Pulse Output (Optional in lieu of relay O/P) for EM2140 | |
| Rating | 24 VDC @ 20 mA |
| Pulse rate | 3600 pulses per KWh |
| Pulse duration | 40 mSec ± 10% |
| Output Type | Open collector [External Excitation Required] |
| Analog Output (Optional in lieu of Relay O/P) for PM2140 | |
| Output Type [Factory Set] | Current O/P: 4-20 mA DC Voltage O/P: 0-10 V DC |
| Response Time | < 1 Sec |
| Output Impedance | < 550 Ohms for 4-20 mA DC o/p > 2K for 0-10 V DC o/p |
| Analog O/P Parameters [Field Selectable] | Phase Volt / Avg. Volt / Phase Current / Avg. Current / Sys. Freq. / Phase Watt / Sys. Watt / Phase VAR / Sys. VAR / Phase VA / Sys. VA / Phase PF / Sys. PF |

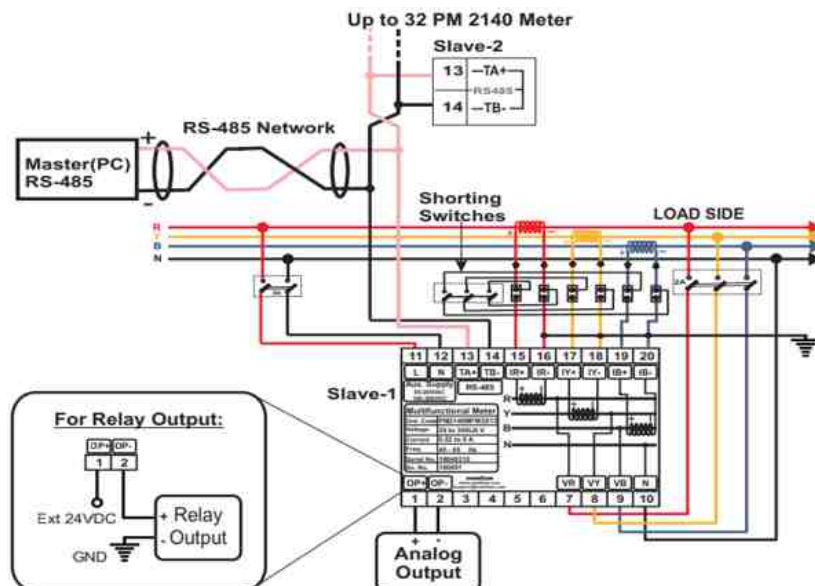
PM2140 & EM2140 - DIMENSIONAL DRAWING



EM2140 CONNECTION DIAGRAM

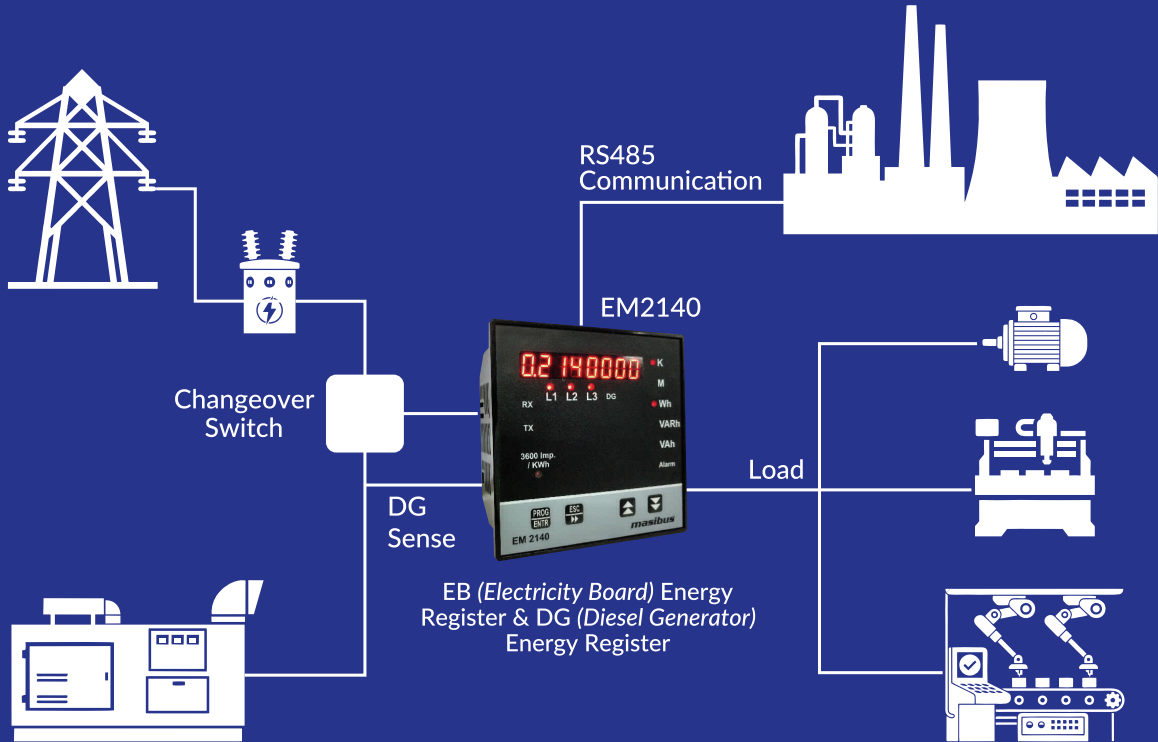


PM2140 CONNECTION DIAGRAM



EM2140 APPLICATION - MONITORING OF DUAL SOURCE USAGE

Dual Source Energy Measurement



MONITORING FOR EB/DG USE & MEASUREMENT OF GENERATOR OVERLOADING



EB-DG CHANGEOVER PANEL

2160-A MULTIFUNCTION METERS



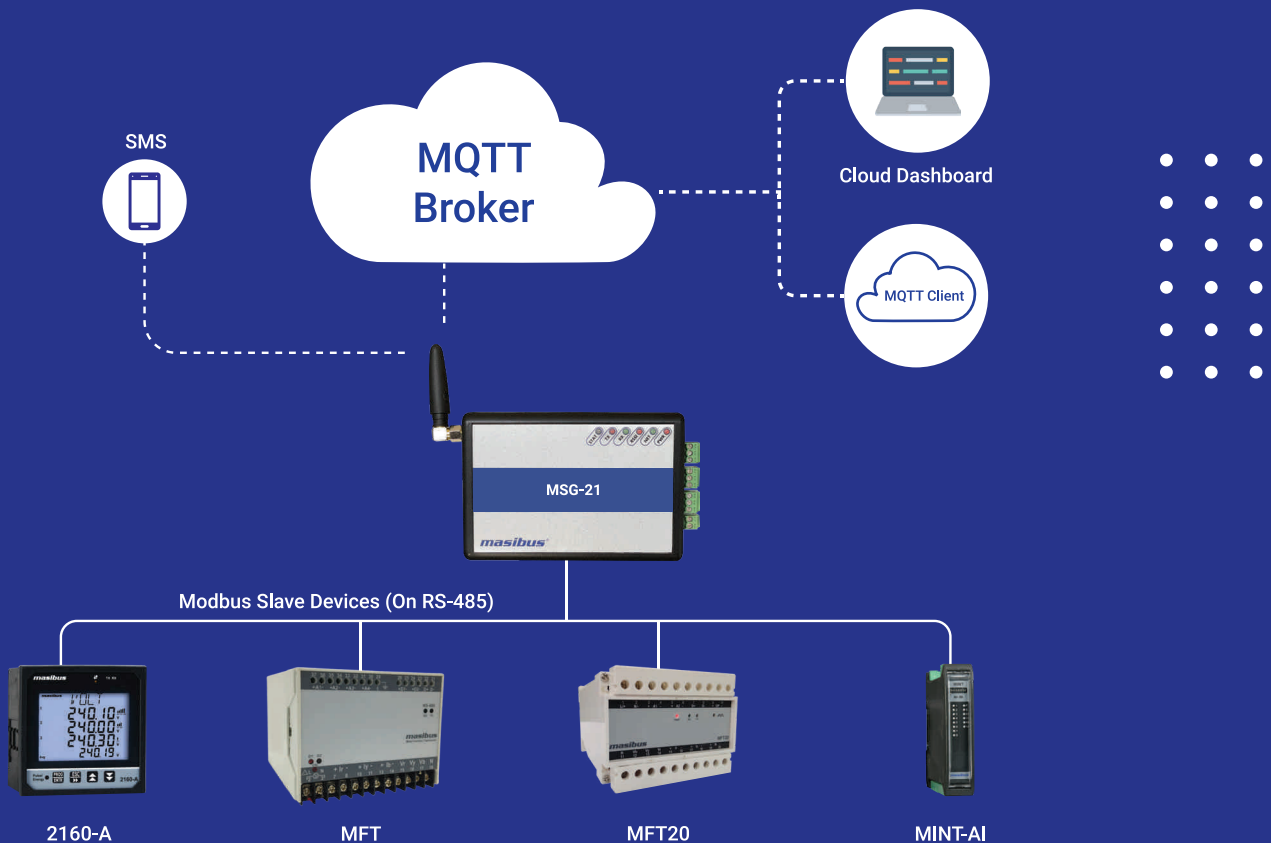
**2160 - A
LCD DISPLAY**



**2160 - A
LED DISPLAY**

USP

- Available Accuracy Class 1.0, 0.5s, 0.2s for all Active, Reactive & Apparent Energy
- Four Quadrant measurement
- Digital pulse output and also available front Pulse LED for site calibration for selected type of energy
- Maximum Demand and THD Measurement
- Last day Energy, Min-Max Value measurement



REMOTE MONITORING OF ELECTRICAL SYSTEMS - IIOT APPLICATION

MULTIFUNCTION METER- 2160 A

TECHNICAL SPECIFICATIONS

| | |
|-----------------------------------|--|
| System Type | 3Ph4W / 3Ph3W (Site selectable) |
| AC Current Input | |
| Nominal Input Current (In) | 1A / 5A AC Site selectable |
| Measuring Current Range | 1mA to 6A |
| Burden | <0.2VA at per phase |
| AC Voltage Input | |
| Nominal Input Voltage(Un) | 63.5V L-N, 110V L-N or 240V L-N (Site selectable) |
| Measuring Voltage Range | 20 to 350V (L-N) or 34V to 620V (L-L) |
| Burden | <0.2 VA per phase |
| CT/PT Ratio | 1 to 9999.999 Programmable |
| Frequency | 45 to 65 Hz |
| Starting Current | 0.1% of Nominal Current |
| Power Supply | Aux. Powered 85-265VAC/ 100-300VDC Burden : < 4VA for LED Display < 3VA for LCD Panel with Backlight |
| Communication Output RS485 | |
| Interface | Rs485 Modbus RTU |
| Baud Rate | 9600, 19200, 38400 (Selectable) |
| Parity bit | None, Odd, Even (Selectable) |
| Stop bit | 1, 2 (Selectable) |
| Pulse Output (Optional) | |
| Type | WH/ VARH/ VAH |
| AC/DC Ratings | 24VDC, 20mA |
| Pulse rate | Programmable from 100 to 60000 pulses per Energy |
| Pulse duration | 20 mSec \pm 10% |
| Output Type | Open collector [External Excitation Required] |

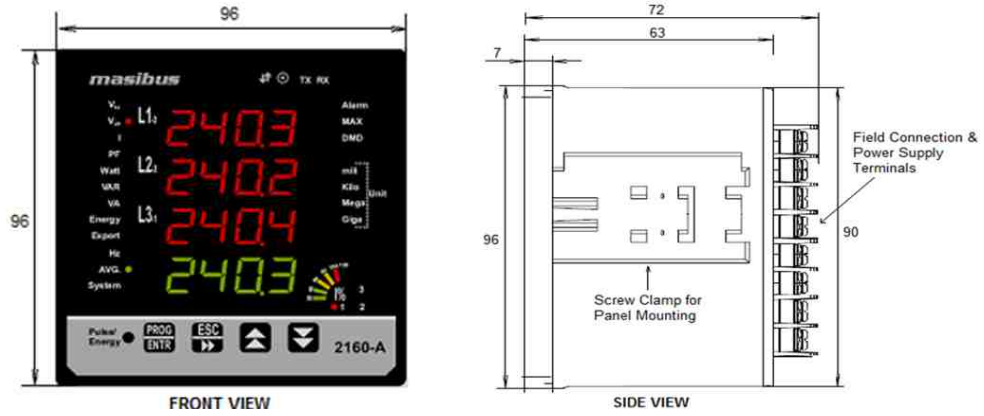


PCC PANEL / SWITCHGEAR PANEL

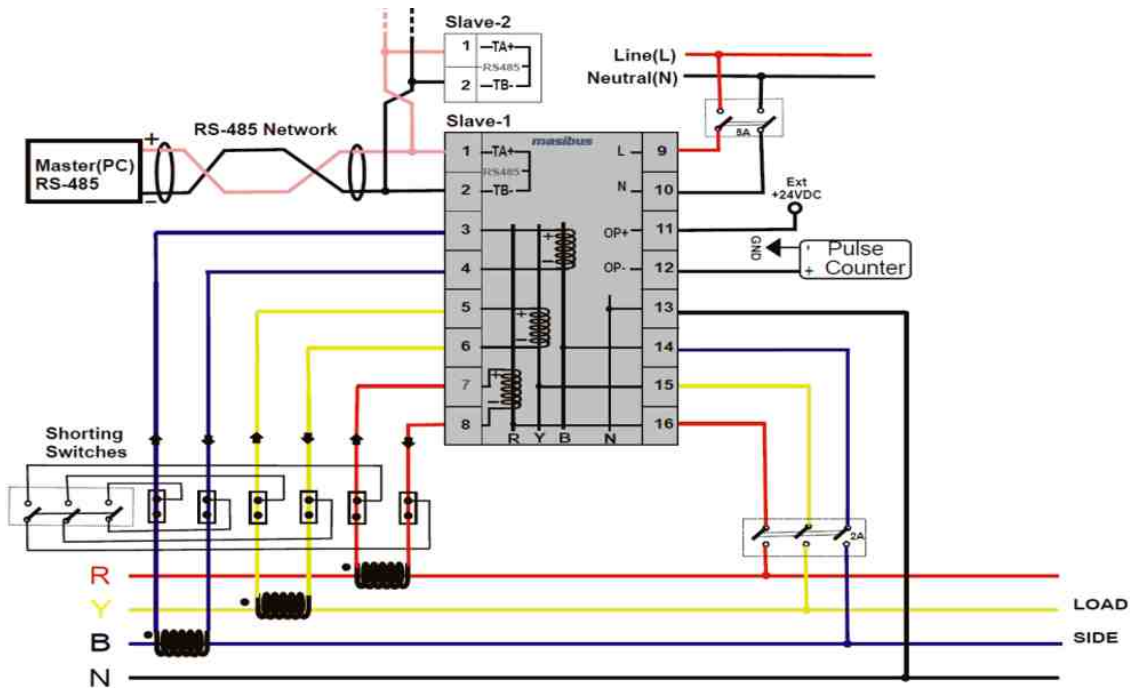
MULTIFUNCTION MTER- 2160 A

| Measured Parameters | |
|---|---|
| Voltage | L1-L2, L2-L3, L1-L3, Avg L1-N, L2-N, L3-N, Avg |
| Current | I1,I2,I3,Avg & In |
| Frequency | System Frequency |
| Power Factor | Phase wise PF & Avg |
| Phase Angle | Phase wise |
| Power (Phase wise & Total) | Active, Reactive, Apparent |
| Energy (Phase wise & Total) | Active Energy for Import & Export Reactive Energy for Import & Export Apparent Energy |
| Demand | Maximum Demand on KW/KVA (Block/Sliding) |
| THD | Voltage & Current |
| Real clock & date | |
| Percentage Voltage & Current Unbalance | |
| ON hour, RUN hour, IDLE hour,Power Interruption count | |
| Last day Energy, Min-Max Value | |
| Accuracy Class | Class 1.0, 0.5s, 0.2s as per IS13779 / IEC62053-21, IS14697 / IEC62053-22 |
| EMI/EMC Test | |
| <ul style="list-style-type: none"> • Electrostatic Discharge IEC 61000-4-2 [As per IEC61326-1 & IEC62052-11] • Fast Transient Burst IEC 61000-4-4 [As per IEC61326-1] • Surge Voltage IEC 61000-4-5 [As per IEC61326-1 & IEC62052-11] • Conducted Susceptibility IEC 61000-4-6 [As per IEC61326-1 & IEC62052-11] • Power Frequency Magnetic Field IEC 61000-4-8 [As per IEC61326-1] • Voltage Dip and Short Interruption IEC 61000-4-11 [As per IEC61326-1] • Conducted Emission CISPR11 [As per IEC61326-1], CISPR22 [As per IEC62052-11] • Radiated Emission CISPR11 [As per IEC61326-1], CISPR22 [As per IEC62052-11] • Impulse Voltage IEC 60060-1 | |
| GENERAL SPECIFICATIONS | |
| Mounting Type | Panel mount |
| Size (in mm) | 96 (H) x 96(W) x 64 (D) |
| Material | ABS |
| Enclosure Protection | IP-51 (Front Fascia), IP-20 Over all |
| Working temperature | 0 to 55 °C |
| Terminal | Barrier Type terminal |

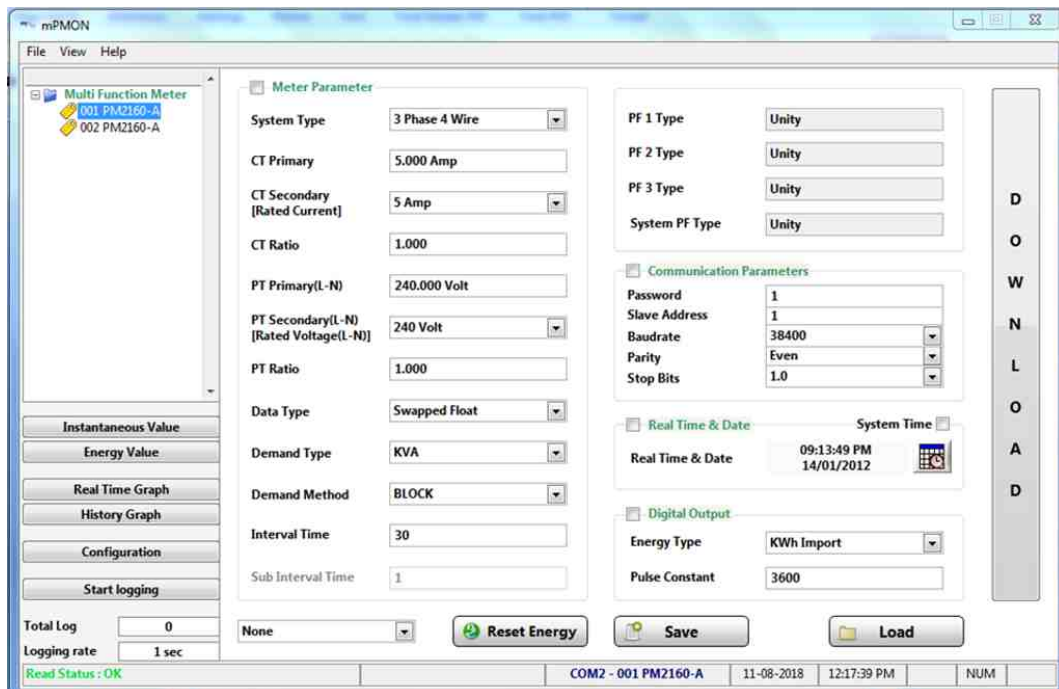
DIMENSIONAL DRAWING



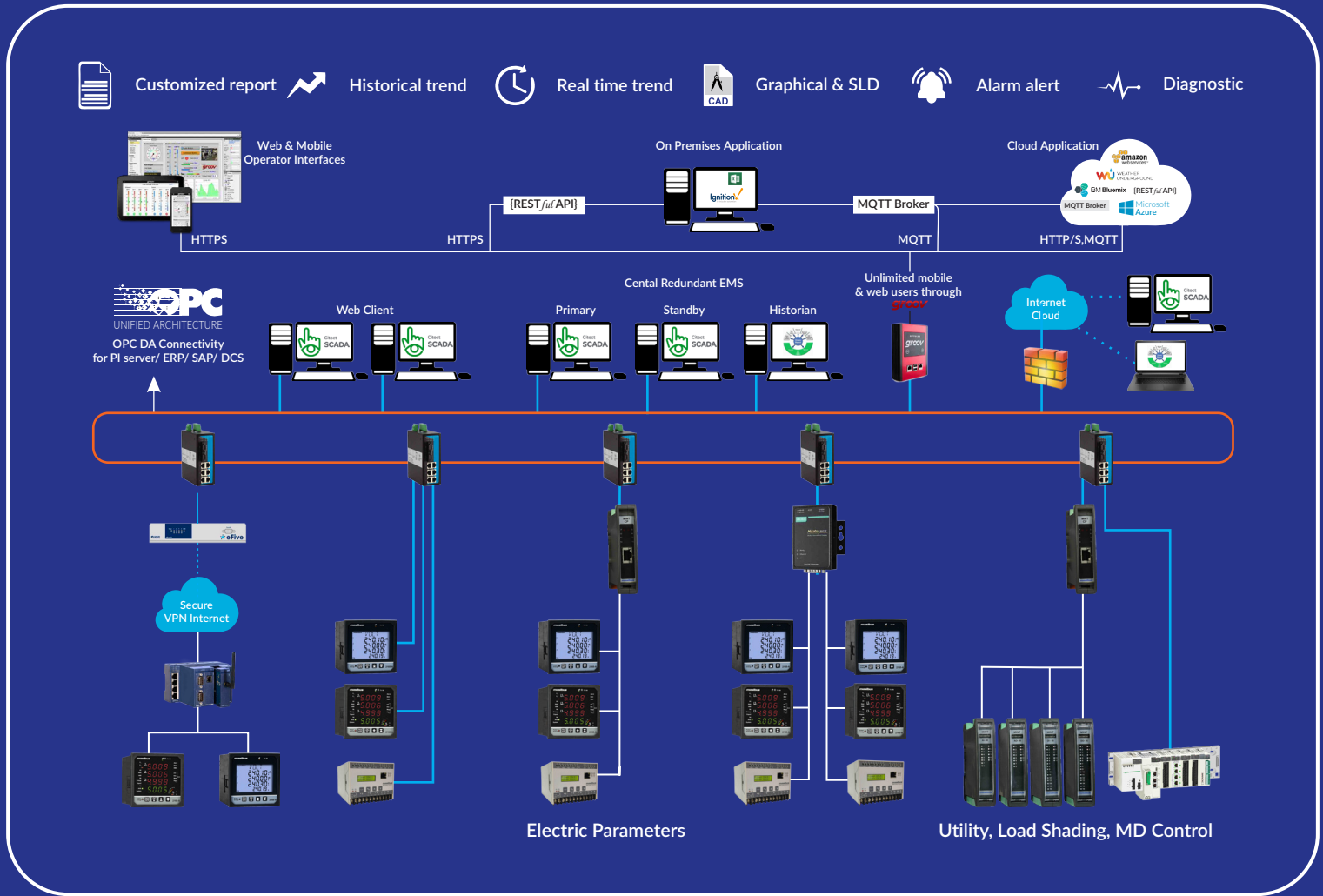
CONNECTION DIAGRAM





FREE CONFIGURATION SOFTWARE FOR MFM




ENERGY MONITORING SYSTEM




 Savings from max demand heavy penalty

 Minimize production loss


 Load balance

 Preventive maintenance

 Man power & resource planning

 Energy cost vs production analysis

 Accurate MIS reporting

 Monitor equipment efficiency



User Assignable Modbus Register

- The MFT / MFM contains the 60 user assignable registers in the address range of 2001 to 2119, any of which you can map to either register address accessible in the instrument. Registers that reside in different locations may be accessed by a single request by re-mapping them to adjacent addresses in the user assignable registers area.
- Master can read all required data in a single request to reduce the burden of the master device (PLC, DCS SCADA, RTU) as well as data traffic on communication bus.

What is Transducer (MFT) ?

- The transducer is suitable for measuring, monitoring and analysing Single / three-phase industrial and supply applications. It is available with up to four analogue outputs and can accurately measure electrical quantities such as current, voltage, active power, reactive power and power factor by converting them into proportional DC current or voltage analogue signals (For e.g. 0-10 V, 0-20mA, 4-20 mA etc.). The output signal that is generated is proportional to the true RMS value of the input signal.

What does the 's' on the MFM Accuracy class 0.2s & 0.5s mean?

- IEC Standard 62053-11 covers Accuracy Class 0.5, 1.0 & 2 for electro mechanical meters for active energy (watt-hours) which means the accuracy as a percentage from reading based on full load conditions and unity power factor. However the accuracy deteriorates under lower load conditions, power factor less than unity along with the presence of harmonics.
- IEC Standard 62053-22 covers a higher Accuracy Standard of 0.2S and 0.5S for static/electronic for active energy (watt-hours) providing a higher "Accuracy Standard" under full load conditions and unity power factor in addition to better accuracy readings at much lower load currents, power factor



2160 - A LCD DISPLAY



2160 - A LED DISPLAY



MFT20

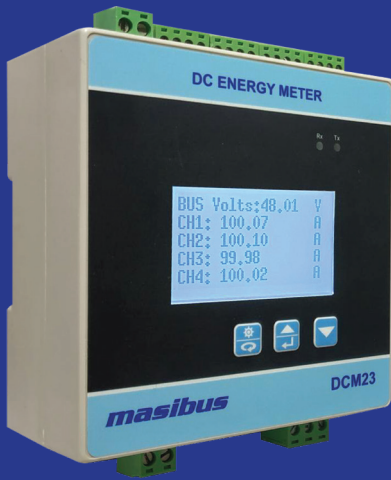


MFT20



MFT

DCM23 - DC Energy Meter



DCM23 - DC Energy Meter

USP

- 1 voltage and 4 current input channels
- Bi-directional current measurement
- Programmable CT Primary for all channels up to 400A - for Hall Effect CT
- RS-485 Modbus communication
- Optional Energy Data logging (upto 60 days with time stamp)

TECHNICAL SPECIFICATIONS

Input

| | |
|---------------------|--|
| Voltage Input Range | 5V to 60V DC |
| Current Input Range | Through Hall Effect CT, Up to 400A |
| No. of channels | 1 voltage channel and 4 current channels |

Supply

| | |
|-------------------|---------------------|
| Aux supply | DC Supply: 18-60VDC |
| Power Consumption | < 1.5W |

Accuracy

| | |
|-------------------------|---------------|
| Reference Conditions | 23 °C ± 2 °C |
| Voltage, Current, Power | ± 0.5 % of FS |
| Energy | Class 1.0 |
| Temperature Drift | 0.05 % / °C |

Display

| | |
|--|---|
| Display & Keys | 128 x 64 Graphical LCD with Backlight 3 Front keys for configuration |
| Displayed Parameters | |
| Voltage (V) | Common Voltage 1-channel |
| Current (A), Power (KW), Energy (KWh) | All 4 channels |

RTC & Data logging (Optional)

| | |
|--------------|---|
| Data logging | Day wise and month wise energy consumption logging for 60 day & 12 month data capacity. |
|--------------|---|

Utilities vs Electrical Parameters Requirements

| Utilities | Watts | VARs | Current | Voltage | Frequency | Phase Angle | Ground Faults | Transformer Temp. | Ambient Temp. | Watt/ Watt-hour | VAR/ VAR-hour | Billing Allocation | DC Voltage |
|-----------------------------|-------------------------------|------|---------|---------|-----------|-------------|---------------|-------------------|---------------|-----------------|---------------|--------------------|------------|
| Generating Station | Per Generator | ● | ● | ● | ● | ● | | | | | | | |
| | General Use | | | | | | ● | ● | ● | | | | ● |
| Transmission Station | Incoming Line | ● | ● | ● | | | | | | | | | |
| | Outgoing Line | ● | ● | ● | | | ● | ● | ● | | | | ● |
| | General | | | | | | | | | | | | |
| Transformer Station | Incoming Line | | | ● | | | | | | | | | |
| | Station Bus | | ● | ● | | | | | | ● | ● | | |
| | Feeder | ● | ● | | | | | | | | | | |
| | General | | | | | | ● | ● | ● | | | | ● |
| Distribution Station | Incoming Line | | | ● | | | | | | | | | |
| | Station Bus | ● | ● | ● | | | | | | | | | |
| | Feeder | | ● | | | | | | | | | | |
| | General | | | | | | ● | ● | ● | | | | ● |
| Process Users | Motors | ● | ● | ● | | ● | | | | | | | |
| | Energy Management | | | | | | | | | | | | |
| | Uninterruptible Power Systems | ● | ● | ● | ● | ● | | | | | | | ● |



masibus[®]

A Sonepar Company

Masibus Automation And Instrumentation Pvt. Ltd.

Gandhinagar

Address: B-30, G.I.D.C. Electronic Estate,
Sector - 25, Gandhinagar - 382 024,
Gujarat, India
E-mail: sales@masibus.com
Ph. No.: +91 9662042824

Goa

Address: C-6, Phase 1-A, Verna Industrial
Estate, Verna, Salcette - 403722,
Goa, India
E-mail: sales@masibus.com
Ph. No.: +91 9822135796

Sharjah

Address: A2-102, SAIF Zone, PO Box
120145 Sharjah, UAE
E-mail: sharjahall@masibus.com
Ph. No.: +971 65574650

Bengaluru

E-mail: sales@masibus.com
Ph. No.: +91 8732971943

Chennai

E-mail: sales@masibus.com
Ph. No.: +91 9725154195

Delhi

E-mail: sales@masibus.com
Ph. No.: +91 9909949742

Hyderabad

E-mail: sales@masibus.com
Ph. No.: +91 9909949062

Kolkata

E-mail: sales@masibus.com
Ph. No.: +91 9512003359

Mumbai

E-mail: sales@masibus.com
Ph. No.: +91 9689937234

Pune

E-mail: sales@masibus.com
Ph. No.: +91 9689937234

E-mail: sales@masibus.com
Website: www.masibus.com

Sales Service: TOLL FREE (India)

1-800-233-2273

Sonepar India Pvt. Ltd.

Gurgaon

Address: Plot No. 229/239, Village -
Kherki Daula, Sector 76, Gurugram,
Haryana, 122004, India

Kolkata

Address: 503, Block 4B, Ecospace
Business Park, Newtown, Rajarhat,
Kolkata, West Bengal, 700160, India

Chennai

Address: Plot No. 1, Gokul Garden,
Melnallathur, Thiruvallur, Chennai,
Tamil Nadu, 602002, India

Aurangabad

Address: FP-42, Five Star Industrial Area,
Shendra MIDC, Aurangabad,
Maharashtra, 431201, India

Panchkula

Address: Plot No. 263, Industrial Area,
Phase-II, Panchkula, Haryana,
134113, India

Bhubaneswar

Address: Plot No. 443, 1st Floor,
Saheed Nagar, Bhubaneswar,
Odisha, 751007, India

E-mail: communications@soneparindia.com
Website: www.soneparindia.com