



SPECIFICATIONS

| | |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display | : 1 st row of 4 digits to show electrical parameters 2 nd row of 7digits to show electrical parameters 3 rd row of 7digits to show electrical parameters : Liquid crystal display with backlight. : Digit integrated with parameter units. |
| LED Indications | : INT - Integration of energy INT1 1000 Pulses/kWh (Fixed) INT2 1/10/100/1000 Pulses/kWh or Pulses/kVAh (Configurable) |
| LCD Indications | : - Communication in progress MD - Maximum Demand of Power |
| Wiring Input | : 3Ø - 4W, 3Ø - 3W ,1Ø - 2W |
| Rated Input Voltage | : 85-285V AC (L-N) } Self-Powered 148-494V AC (L-L) |
| Frequency Range | : 45Hz to 65Hz |
| Rated Input Current | : I _b = 10A, I _{min} = 500mA, I _{max} = 100A |
| Display Update Time | : 1 sec for all parameters |
| Display Scrolling | : Auto / Manual / Default (Programmable) |
| Power Consumption | : Less than 8VA |
| Environmental Conditions | : Indoor use Altitude up to 2000 meters Pollution degree II |
| Temperature | : Operating : -10°C to 55°C Storage : -20°C to 70°C |
| Humidity | : Upto 85% (non - condensing) |
| Mounting | : Din rail mounting |
| Weight | : 400gms |
| Communication | : RS485 MODBUS RTU |
| Accuracy Class | : Class 1 for Active energy |
| Output | : POP Voltage range : External 24V DC max Current capacity : 100mA max |
| Tightening Torque | : 1.5 Nm to 2 Nm |

ORDER CODE INFORMATION

| Product | Output | Certification |
|----------------|--------------------------------|---------------|
| EM4M-3P-C-100A | RS485 (Modbus RTU) & Pulse O/P | CE |

SERIAL COMMUNICATION

| | |
|---------------------------------|-----------------------------------------|
| Interface standard and protocol | RS485 AND MODBUS RTU |
| Communication address | 1 to 255 |
| Transmission mode | Half duplex |
| Data types | Float & Integer |
| Transmission distance | 500 meter maximum |
| Transmission speed | 2400, 4800, 9600, 19200, 38400 (in bps) |
| Stop bits | 1 or 2 |
| Parity | None, Odd, Even |

ACCURACY

| Measurement | Accuracy |
|--------------------------|-------------------------|
| Voltage V _{L-N} | ±0.5% of Full scale |
| Voltage V _{L-L} | ±0.5% of Full scale |
| Current | ±0.5% of I _b |
| Power Factor | ±0.01 of Full scale |
| Frequency | ±0.1% of Full range |
| Active Power | 1.00% of Full range |
| Reactive Power | 1.00% of Full range |
| Apparent Power | 1.00% of Full range |
| Active Energy | Class 1 (IEC 62053-21) |
| Reactive Energy | Class 2 (IEC 62053-23) |
| Demand Active Power | 1.00% of Full range |
| Demand Reactive Power | 1.00% of Full range |
| Demand Apparent Power | 1.00% of Full range |

RESOLUTION

| | |
|--------|-------|
| Energy | 0.01k |
|--------|-------|

Note: For voltage, current & power resolution is adjusted automatically.
For power factor resolution is 0.01

SAFETY PRECAUTIONS

All safety related notifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating person as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

- Do not use the equipment if there is any mechanical damage.
- Ensure that the equipment is supplied with correct voltage.

CAUTION :

1. Read complete instructions prior to installation and operation of the unit.
2. Risk of electric shock.
3. The equipment in its installed state must not come in close proximity to any heating sources, oils, steam, caustic vapors or other unwanted process by products.

WIRING GUIDELINES

WARNING :

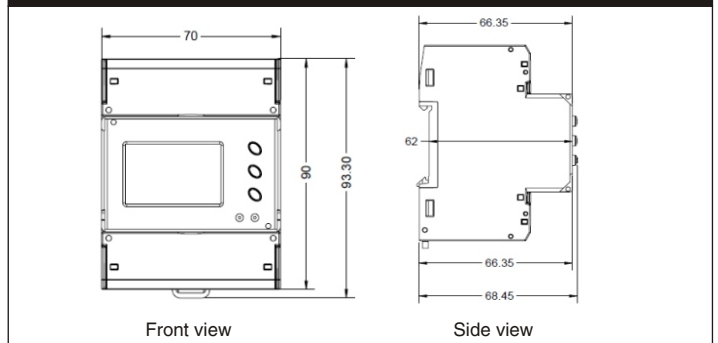
1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.
3. Use lugged terminals.
4. To reduce electromagnetic interference use of wires with adequate ratings and twists of the same in equal size shall be made with shortest connections.
5. Layout of connecting cables shall be away from any internal EMI source.
6. Cable used for connection to power source, must have a cross section of 35mm²(2AWG ; 75°C(min)).
7. Copper cable should be used (Stranded or Single core cable).
8. Before attempting work on device, ensure absence of voltages using appropriate voltage detection device.

INSTALLATION GUIDELINES

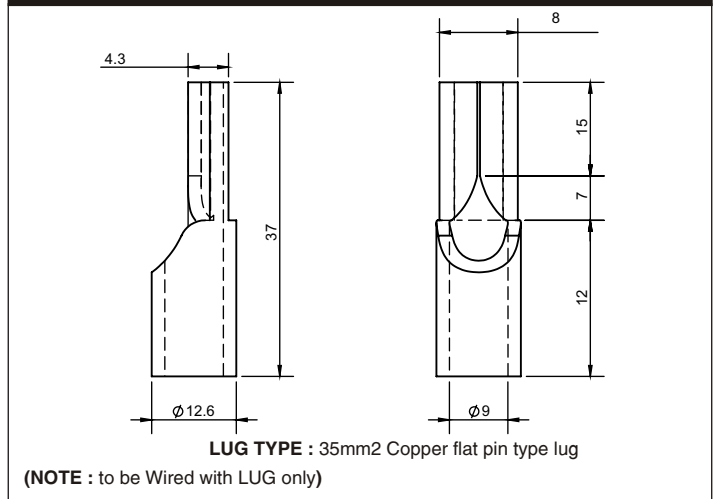
CAUTION :

1. This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
2. Conductors must not come in contact with the internal circuitry of the equipment or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
3. The equipment shall not be installed in environmental conditions other than those mentioned in this manual.
4. Connector screw must be tightened after installation.

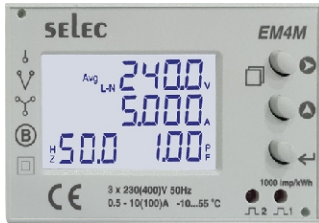
MECHANICAL DIMENSION



LUG DESCRIPTION



FRONT PANEL DESCRIPTION



ONLINE PAGE DESCRIPTION

There are 2 dedicated keys labeled as (●) & (◀) Simply press these keys to read parameters. Units of corresponding parameter on display will automatically glow.

| | | |
|-------|---|-------------------------------|
| Key-1 | ● | Used for scrolling main pages |
| Key-2 | ◀ | Used for scrolling sub pages |
| Key-3 | ◀ | Used for display serial no. |

| Key Press | Parameter Key | Online page description |
|--------------------------------------|-------------------------------------|---------------------------------------------------------------------------------|
| Online page description for 3P4W | | |
| At Power ON | - | Display total import active energy of three phase |
| | Press (●) Key(1 st time) | Display total export active energy of three phase |
| | Press (●) Key(2 nd time) | Display total active energy of three phase DG (SRC2) |
| | Press (●) Key(3 rd time) | Display import & export active energy of 1 st phase |
| | Press (●) Key(4 th time) | Display import & export active energy of 2 nd phase |
| | Press (●) Key(5 th time) | Display import & export active energy of 3 rd phase |
| Press (●) key (1 st time) | - | Display total import reactive energy of three phase |
| | Press (●) Key(1 st time) | Display total export reactive energy of three phase |
| | Press (●) Key(2 nd time) | Display total reactive energy of three phase DG (SRC2) |
| | Press (●) Key(3 rd time) | Display import & export reactive energy of 1 st phase |
| | Press (●) Key(4 th time) | Display import & export reactive energy of 2 nd phase |
| Press (●) key (2 nd time) | - | Display total apparent energy of three phase MAINS (SRC1) |
| | Press (●) Key(1 st time) | Display total apparent energy of three phase DG (SRC2) |
| | Press (●) Key(2 nd time) | Display apparent energy of 1 st phase |
| | Press (●) Key(3 rd time) | Display apparent energy of 2 nd phase |
| | Press (●) Key(4 th time) | Display apparent energy of 3 rd phase |
| Press (●) key (3 rd time) | - | Displays line to neutral voltage of three phases |
| | Press (●) Key(1 st time) | Displays line to line voltage of three phases |
| | Press (●) Key(2 nd time) | Display Current of three phases |
| | Press (●) Key(3 rd time) | Display average of three phase line to neutral voltage, current, PF & frequency |
| | Press (●) Key(4 th time) | Display average of three phase line to line voltage, current, PF & Frequency |
| Press (●) key (4 th time) | - | Display Power factor of three phases & Frequency |
| | Press (●) Key(1 st time) | Display active power of three phases |
| | Press (●) Key(2 nd time) | Display reactive power of three phases |
| Press (●) key (5 th time) | Press (●) Key(3 rd time) | Display apparent power of three phases |
| | - | Display total active power |
| | Press (●) Key(1 st time) | Display total reactive power |
| | Press (●) Key(2 nd time) | Display total apparent power |
| | Press (●) Key(3 rd time) | Display max demand of active power |
| Press (●) key (3 rd time) | Press (●) Key(4 th time) | Display max demand of reactive power |
| | Press (●) Key(5 th time) | Display max demand of apparent power |

| Key Press | Parameter Key | Online page description |
|--------------------------------------|-------------------------------------|------------------------------------------------------------------------------|
| Online page description for 3P3W | | |
| At Power ON | - | Display total import active energy of three phase |
| | Press (●) Key(1 st time) | Display total export active energy of three phase |
| | Press (●) Key(2 nd time) | Display total active energy of three phase DG (SRC2) |
| Press (●) key (1 st time) | - | Display total import reactive energy of three phase |
| | Press (●) Key(1 st time) | Display total export reactive energy of three phase |
| Press (●) key (2 nd time) | Press (●) Key(2 nd time) | Display total reactive energy of three phase DG (SRC2) |
| | Press (●) Key(1 st time) | Display total Apparent energy of three phase MAINS (SRC1) |
| Press (●) key (3 rd time) | Press (●) Key(1 st time) | Display total Apparent energy of three phase DG (SRC2) |
| | Press (●) Key(2 nd time) | Displays line to line voltage of three phases |
| Press (●) key (3 rd time) | Press (●) Key(1 st time) | Display Current of 1 st & 3 rd phase |
| | Press (●) Key(2 nd time) | Display average of three phase line to line voltage, current, PF & Frequency |

| Key Press | Parameter Key | Online page description |
|--------------------------------------|-------------------------------------|--------------------------------------|
| Online page description for 3P3W | | |
| Press (●) key (4 th time) | - | Display total Active power |
| | Press (●) Key(1 st time) | Display total reactive power |
| | Press (●) Key(2 nd time) | Display total apparent power |
| | Press (●) Key(3 rd time) | Display max demand of active power |
| | Press (●) Key(4 th time) | Display max demand of reactive power |
| | Press (●) Key(5 th time) | Display max demand of apparent power |

| Key Press | Parameter Key | Online page description |
|--------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|
| Online page description for 1P2W | | |
| At Power ON | - | Display import active energy of selected single phase |
| | Press (●) Key(1 st time) | Display export active energy of selected single phase |
| | Press (●) Key(2 nd time) | Display total Active energy DG (SRC2) |
| Press (●) key (1 st time) | - | Display import reactive energy of selected single phase |
| | Press (●) Key(1 st time) | Display export reactive energy of selected single phase |
| | Press (●) Key(2 nd time) | Display total reactive energy DG (SRC2) |
| Press (●) key (2 nd time) | - | Display selected single phase apparent energy MAINS (SRC1) |
| | Press (●) Key(1 st time) | Display selected single phase apparent energy DG (SRC2) |
| Press (●) key (3 rd time) | - | Display line to neutral voltage, current, PF & Frequency of selected single phase |
| | - | Display active power of selected single phases |
| Press (●) key (4 th time) | Press (●) Key(1 st time) | Display reactive power of selected single phases |
| | Press (●) Key(2 nd time) | Display apparent power of selected single phases |
| | Press (●) Key(3 rd time) | Display max demand of active power |
| | Press (●) Key(4 th time) | Display max demand of reactive power |
| | Press (●) Key(5 th time) | Display max demand of apparent power |

AUTOMATIC / MANUAL / DEFAULT MODE DESCRIPTION

Press key ◀ for 3 seconds to toggle between Automatic, Manual and Default mode. **Note :** By default unit operates in manual mode. In automatic mode online pages scroll automatically at the rate of 6 seconds per page. In automatic mode when any key is pressed, unit temporarily switches to manual mode and the appropriate page is displayed.

SERIAL NUMBER DESCRIPTION

Press ◀ key to display 8 digit serial number only for 5sec at 2nd & 3rd row of display.

CONFIGURATION

There are two dedicated keys with symbol ● & ◀ Use these 2 keys to enter into configuration menu **Note :** The settings should be done by a professional, after going through this user manual and after having understood the application situation

For the configuration setting mode :

- Use (●) & ◀ key for 3 sec to enter and exit from configuration menu
- Use (●) key to increment the configuration parameter value
- Use (●) key to edit the value and shift the cursor to next digit, after last digit cursor goes back to 1st digit.
- Use ◀ key for enter & save the parameter value & go to the next page

| Config. page | Function | Range or selection | Factory setting |
|--------------|--------------------------|---------------------------------------------------------------|-----------------|
| 1 | Password | 0000 to 9998 | 1000 |
| 2 | Change Password | No / Yes | No |
| 2.1 | New Password | 0000 to 9998 | -- |
| 3 | Selection Wiring | Bottom / Top | Bottom |
| 4 | Network Selection | 3P4W, 3P3W 1P2W-P1, 1P2W-P2, 1P2W-P3 | 3P4W |
| 5 | Demand interval method | Sliding / Fixed | Sliding |
| 6 | Demand interval duration | 1 to 30 | 15 |
| 7 | Demand interval length | 1 to 30 min | 1 |
| 8 | POP Type | Total kWh / IP kWh / EP kWh Total kVAh / IP kVAh / EP kVAh | Total kVAh |
| 9 | Pulse weight | 1/10/100/1000 | 1000 |
| 10 | Pulse duration | 0.01 to 0.5 sec | 0.1 |
| 11 | Dual Source Setting | No / Yes | No |
| 12 | Slave Id | 1 to 255 | 1 |
| 13 | Baud Rate | 2400,4800, 9600,19200 & 38400 bps | 9600 |
| 14 | Parity | None, Odd, Even | None |
| 15 | Stop Bit | 1 or 2 | 1 |
| 16 | Endianness | MSRF/LSRF | MSRF |
| 17 | Backlight | 0 to 7200 | 0 |
| 18 | Factory default | No / Yes | No |
| 19 | Reset Energy and max Dmd | No / Yes | No |
| 19.1 | Password | 0001 to 9999 | 1001 |
| 19.2 | Reset Energy and max Dmd | SRC1/SRC2 | SRC1 |
| 19.3 | Reset kWh | No / Yes | No |
| 19.4 | Reset kVAh | No / Yes | No |
| 19.5 | Reset kVAh | No / Yes | No |
| 19.6 | Reset max demand | No / Yes | No |

Note: 1) For resetting energy parameter user will be promoted for password. If correct password is entered. User will be able to reset all energy parameters. This password is equal to existing configuration entry password plus 1.

2) DG pages only visible when Dual Source setting is YES from configuration

| NETWORK SELECTION AND WIRING INPUT | |
|-----------------------------------------|-----------------------------|
| Network selection in configuration mode | Wiring |
| 3P4W | 3P4W, 2P3W |
| 3P3W | 3P3W |
| 1P2W | 1P2W-P1 / 1P2W-P2 / 1P2W-P3 |

| PULSE OUTPUT DESCRIPTION | | | |
|--------------------------|--------------------------------------|------------------------------------------------------|----------------|
| Pulse output | Type | Description | Pulse Width |
| POP1 | Fixed 1000 Pulses | Per kWh | 0.01 to 0.5sec |
| POP2 | Configurable 1/10/100/1000 Pulses | Per kWh - Total/IMP/EXP Per kVArh - Total/IMP/EXP | 0.01 to 0.5sec |

Note: Above 30A current pulse duration should be set to 0.01 sec

| MODBUS REGISTER ADDRESS LIST | |
|-------------------------------------------------------------------------------------------------------|--|
| Readable parameters for Communication Model Only : [Length (Register) : 2 ; Data Structure : Float] | |

| Address | Hex Address | Parameter |
|---------|-------------|------------------------------------|
| 30000 | 0x00 | Voltage V1N |
| 30002 | 0x02 | Voltage V2N |
| 30004 | 0x04 | Voltage V3N |
| 30006 | 0x06 | Average Voltage LN |
| 30008 | 0x08 | Voltage V12 |
| 30010 | 0x0A | Voltage V23 |
| 30012 | 0x0C | Voltage V31 |
| 30014 | 0x0E | Average Voltage LL |
| 30016 | 0x10 | Current I1 |
| 30018 | 0x12 | Current I2 |
| 30020 | 0x14 | Current I3 |
| 30022 | 0x16 | Average Current |
| 30024 | 0x18 | kW1 |
| 30026 | 0x1A | kW2 |
| 30028 | 0x1C | kW3 |
| 30030 | 0x1E | kVA1 |
| 30032 | 0x20 | kVA2 |
| 30034 | 0x22 | kVA3 |
| 30036 | 0x24 | kVA1 |
| 30038 | 0x26 | kVA2 |
| 30040 | 0x28 | kVA3 |
| 30042 | 0x2A | Total kW |
| 30044 | 0x2C | Total kVA |
| 30046 | 0x2E | Total kVA |
| 30048 | 0x30 | PF1 |
| 30050 | 0x32 | PF2 |
| 30052 | 0x34 | PF3 |
| 30054 | 0x36 | Average PF |
| 30056 | 0x38 | Frequency |
| 30058 | 0x3A | Total Net kVAh (MAINS) |
| 30060 | 0x3C | Total Net kVAh (MAINS) |
| 30062 | 0x3E | Total Net kVAh (MAINS) |
| 30064 | 0x40 | Total Net kWh (DG) |
| 30066 | 0x42 | Total Net kVArh (DG) |
| 30068 | 0x44 | Total Net kVAh (DG) |
| 30070 | 0x46 | Max DMD Active Power |
| 30072 | 0x48 | Max DMD Reactive Power |
| 30074 | 0x4A | Max DMD Apparent Power |
| 30076 | 0x4C | kWh1 – Import |
| 30078 | 0x4E | kWh2 – Import |
| 30080 | 0x50 | kWh3 – Import |
| 30082 | 0x52 | kWh1 – Export |
| 30084 | 0x54 | kWh2 – Export |
| 30086 | 0x56 | kWh3 – Export |
| 30088 | 0x58 | Total kWh – Import |
| 30090 | 0x5A | Total kWh – Export |
| 30092 | 0x5C | kVArh1 – Import |
| 30094 | 0x5E | kVArh2 – Import |
| 30096 | 0x60 | kVArh3 – Import |
| 30098 | 0x62 | kVArh1 – Export |
| 30100 | 0x64 | kVArh2 – Export |
| 30102 | 0x66 | kVArh3 – Export |
| 30104 | 0x68 | Total kVArh – Import |
| 30106 | 0x6A | Total kVArh – Export |
| 30108 | 0x6C | kVAh-1 |
| 30110 | 0x6E | kVAh-2 |
| 30112 | 0x70 | kVAh-3 |
| 30684 | 0x2AC | Serial No. (Data structure : Hex) |
| 30710 | 0x2C6 | DG Sensing 1 : Pass 0 : Fail |

Energy rollover counter addresses : Energy rollover counter will increment when energy is roll over from 99999.99 to 0. [Data Structure: Integer]

| Address | Parameter | Address | Parameter |
|---------|-------------|---------|-------------------|
| 31149 | Import kWh1 | 31155 | Total Import kWh |
| 31150 | Import kWh2 | 31156 | Total Export kWh |
| 31151 | Import kWh3 | 31157 | Total kWh (MAINS) |

| Address | Parameter | Address | Parameter |
|---------|---------------------|---------|--------------------|
| 31152 | Export kWh1 | 31158 | Import kVArh1 |
| 31153 | Export kWh2 | 31159 | Import kVArh2 |
| 31154 | Export kWh3 | 31160 | Import kVArh3 |
| 31161 | Export kVArh1 | 31168 | kVAh2 |
| 31162 | Export kVArh2 | 31169 | kVAh3 |
| 31163 | Export kVArh3 | 31170 | Total kVAh (MAINS) |
| 31164 | Total Import kVArh | 31171 | Total kWh (DG) |
| 31165 | Total Export kVArh | 31172 | Total kVArh (DG) |
| 31166 | Total kVArh (MAINS) | 31173 | Total kVAh (DG) |
| 31167 | kVAh1 | | |

READABLE / WRITABLE PARAMETERS FOR COMMUNICATION MODEL ONLY :[DATA STRUCTURE :INTEGER]

| Address | Parameter | Range | | Length (Register) |
|---------|--------------------------|-----------|-----------------------------|-------------------|
| | | Min Value | Max Value | |
| 40000 | Password | 0 | 9998 | 1 |
| | | Min Value | Max Value | |
| 40001 | Slave id | 1 | 255 | 1 |
| | | Value | Meaning | |
| 40004 | N/W Selection | 0 | 3P4W | 1 |
| | | 1 | 3P3W | |
| | | 2 | 1P2W-P1 | |
| | | 3 | 1P2W-P2 | |
| | | 4 | 1P2W-P3 | |
| | | Value | Meaning | |
| 40005 | Demand Interval Method | 0 | Sliding | 1 |
| | | 1 | Fixed | |
| | | Min Value | Max Value | |
| 40006 | Demand Interval Duration | 1 | 30 | 1 |
| 40007 | Demand Interval Length | 1 | 30 | 1 |
| | | Value | Meaning | |
| 40008 | POP | 0 | Total kWh | 1 |
| | | 1 | Total kVArh | |
| | | 2 | IP kWh | |
| | | 3 | EP kWh | |
| | | 4 | IP kVArh | |
| | | Value | Meaning | |
| 40009 | Pulse Weight | 0 | 1 | 1 |
| | | 1 | 10 | |
| | | 2 | 100 | |
| | | 3 | 1000 | |
| | | Value | Meaning | |
| 40010 | Pulse Duration | 1 | 0.01 | 1 |
| | | 2 | 0.05 | |
| | | 3 | 0.1 | |
| | | 4 | 0.2 | |
| | | 5 | 0.3 | |
| | | 6 | 0.4 | |
| | | 7 | 0.5 | |
| | | Value | Meaning | |
| 40011 | Dual source | 0 | No | 1 |
| | | 1 | Yes | |
| 40012 | Baud rate (bps) | 0 | 2400 | 1 |
| | | 1 | 4800 | |
| | | 2 | 9600 | |
| | | 3 | 19200 | |
| 40013 | Parity | 0 | None | 1 |
| | | 1 | odd | |
| | | 2 | Even | |
| 40014 | Stop bit | 1 | 1 | 1 |
| | | 2 | 2 | |
| | | Min Value | Max Value | |
| 40015 | Backlight OFF (sec) | 0 | 7200 | 1 |
| | | Value | Meaning | |
| 40016 | Factory default | 1 | Set to factory default | 1 |
| 40017 | Reset Max Demand | 1 | Reset Max Demand | 1 |
| 40040 | Reset Mains kWh | 1 | Reset active Mains energy | 1 |
| 40041 | Reset Mains kVArh | 1 | Reset reactive mains energy | 1 |
| 40042 | Reset Mains kVAh | 1 | Reset apperant mains energy | 1 |

| | | | | |
|-------|-------------------------|--------------|--------------------------|---|
| 40043 | Reset DG kWh | 1 | Reset active DG energy | 1 |
| 40044 | Reset DG kVarh | 1 | Reset reactive DG energy | 1 |
| 40045 | Reset DG kVAh | 1 | Reset apperant DG energy | 1 |
| | | Value | Meaning | |
| 40046 | Change Wiring Selection | 0 | Bottom | 1 |
| | | 1 | Top | |
| 40070 | Endianness Selection | 0 | Mid Little Endian (CDAB) | 1 |
| | | 1 | Big Endian (ABCD) | |

POWER FACTOR SIGN CONVENTION

Power Factor sign convention (PF sign) can be positive or negative, and is defined by the conventions used by the IEC standard. PF sign correlates with the direction of real power (kW) flow.

- Quadrant 1 and 4: Positive real power (+kW). The PF sign is positive(+).
- Quadrant 2 and 3: Negative real power (-kW). The PF sign is negative(-).

EXAMPLE TO READ DATA FROM INPUT REGISTER

Data format: Big Endian (MSRF)

If Total Active Energy = 1234.12kWh Start Address : 30058, No. Of register : 02 Hexadecimal Equivalent of 1234.12 is 0x449A43D7

Data stored at 30058 is LSB : $\frac{A}{44} \frac{B}{9A}$

Data Stored at 30059 is MSB : $\frac{C}{43} \frac{D}{D7}$

Data Format to be followed is A-B-C-D

Data format: Mid Little Endian(LSRF)

If Total Active Energy = 1234.12kWh Start Address : 30058, No. Of register : 02 Hexadecimal Equivalent of 1234.12 is 0x449A43D7

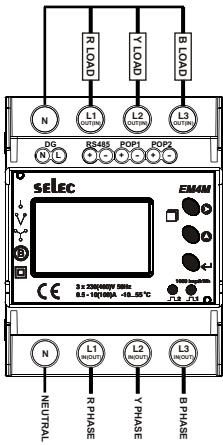
Data stored at 30058 is LSB : $\frac{C}{43} \frac{D}{D7}$

Data Stored at 30059 is MSB : $\frac{A}{44} \frac{B}{9A}$

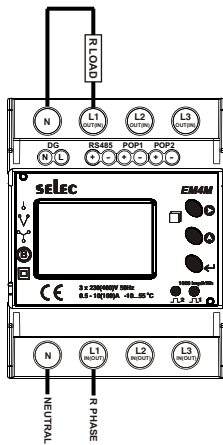
Data Format to be followed is C-D-A-B

TYPICAL WIRING DIAGRAM

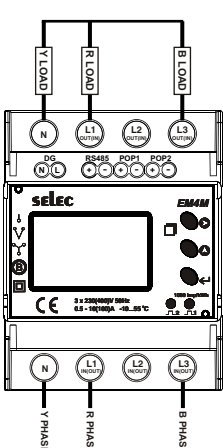
3 Phase - 4 Wire



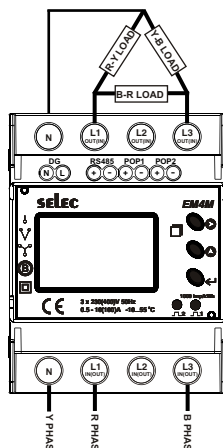
1 Phase - 2 Wire - R



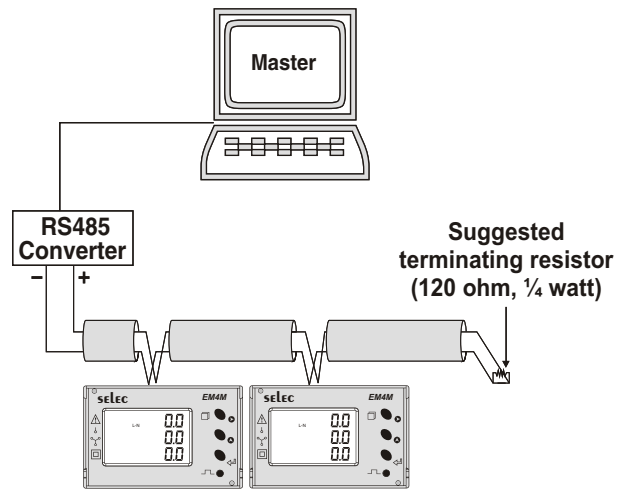
3 Phase - 3 Wire (Star Load)



3 Phase - 3 Wire (Delta Load)



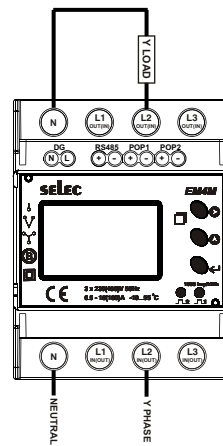
CONNECTION DIAGRAM FOR COMMUNICATION



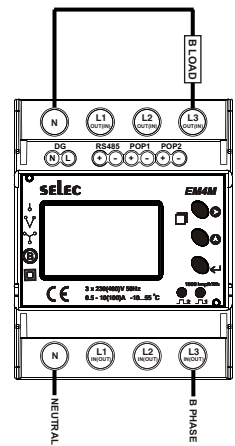
Contact sales for PC based monitoring software to communicate with the meters.

TYPICAL WIRING DIAGRAM

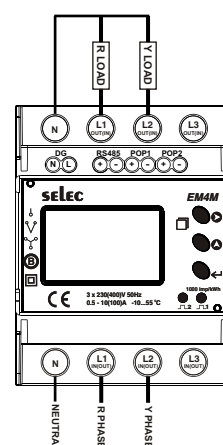
1 Phase - 2 Wire - Y



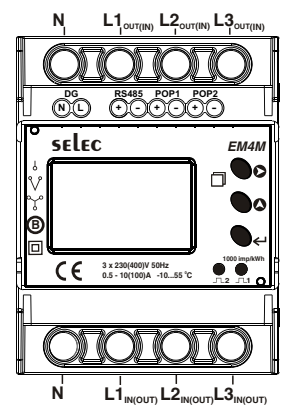
1 Phase - 2 Wire - B



2 Phase - 3 Wire



TERMINAL CONNECTION



Note: This meter can be supplied from the Top or the Bottom. Default is Bottom.

(Specifications are subject to change, since development is a continuous process.)

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