



3 PHASE ENERGY & POWER METER

EM-10

APPLICATIONS

Electrical Control Panel

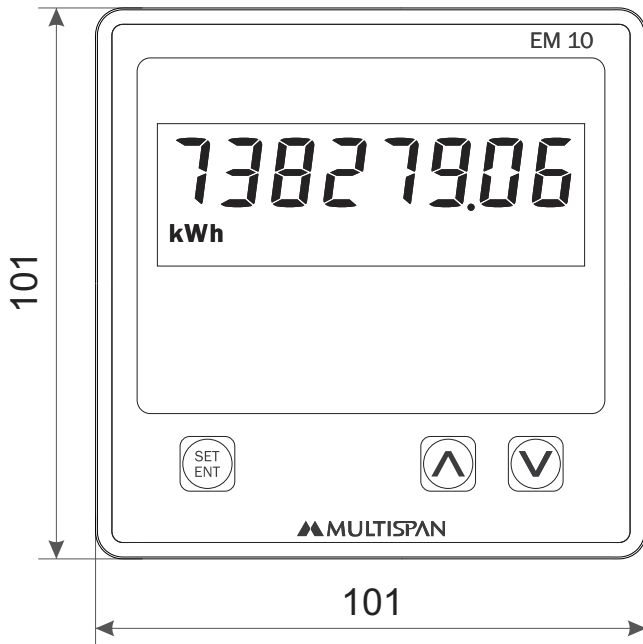
Power Distribution

Instrumentation Panel

Transformer Training

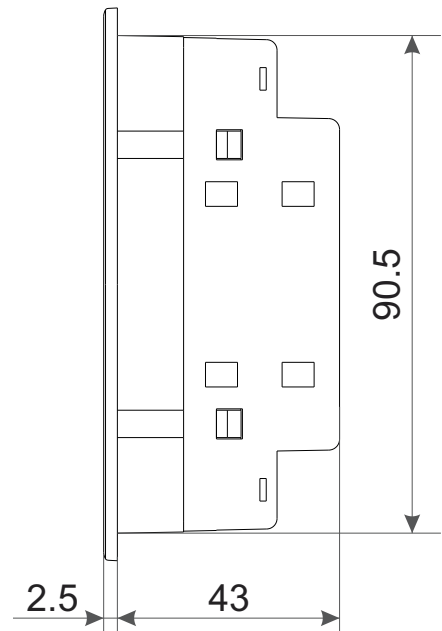
Mechanical Dimensions

Body Dimensions



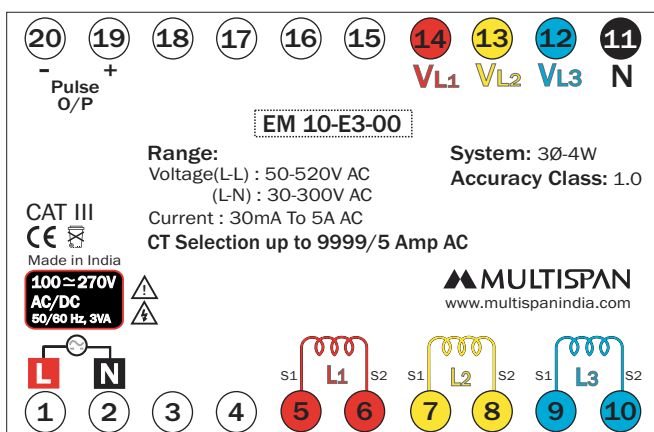
FRONT VIEW

All dimensions are in mm

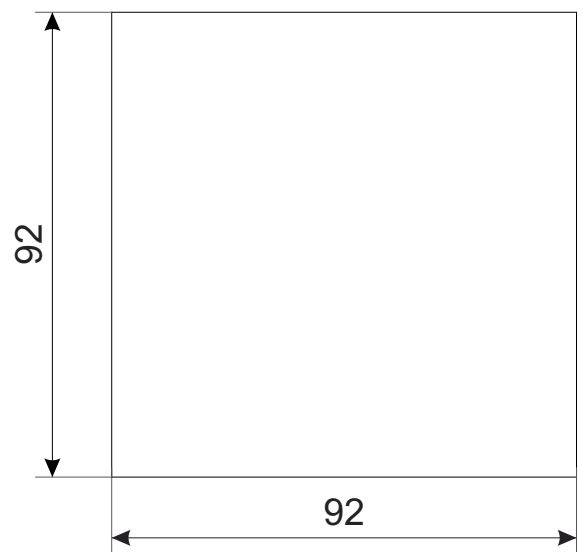


RIGHT SIDE VIEW


Connection Diagram



Panel Cutout



TECHNICAL DATA

| | | |
|------------------------|------------------------|---|
| Input | Voltage | 3 Ø 4 Wire 30 To 300V AC (L- N) 50 To 520V AC (L- L) |
| | Current | 30mA To 5A AC |
| | Specification | |
| Measuring Range | kW | 0.000 To 9999 kW |
| | Measuring Range | 0 to 99999999 kWh (Active energy) |
| Accuracy | | Class 1.0 |
| Power Supply | | 100 To 270V AC/DC, 50/60Hz, Approx 3VA |
| Certificate | |  |

Meter Type

3Ø - 4W

Accuracy

Class 1.0

Input

Voltage

| | |
|----------------|--|
| Voltage | 30 To 300V (L-N) 50 To 520V (L-L) |
|----------------|--|

| | |
|---------------|---------|
| Burden | <0.2 VA |
|---------------|---------|

Current

| | |
|--------------------------|--------------------|
| Secondary Current | 5A (Factory set) |
|--------------------------|--------------------|

| | |
|---------------|---------|
| Burden | <0.2 VA |
|---------------|---------|

| | |
|-------------------|------------------------|
| CT Primary | 5 To 9999 Programmable |
|-------------------|------------------------|

| | |
|-------------------------|------|
| Starting Current | 30mA |
|-------------------------|------|

Output

Pulse Output (Optional)

Voltage :- External 24V DC
Current Capacity :- 25mA
Pulse width - 50 to 500ms

Calculated Parameters

Power (Phase wise & Total)

Active Power (kW) Total
Phase wise

Energy

Active Energy (kWh)

Display

| | |
|----------------|--|
| Display | 8 Digit 7 Seg 0.50" Red LED Display |
|----------------|--|

| | |
|------------|-------------------|
| Key | SET/ENT , INC,DEC |
|------------|-------------------|

Auxiliary Power Supply

| | |
|---------------------|-------------------------------|
| Power Supply | 100 To 270V AC/DC, 50/60Hz |
|---------------------|-------------------------------|

| | |
|--------------------|-----|
| Consumption | 3VA |
|--------------------|-----|

Environmental Characteristics

| | |
|---------------------|-----------------------|
| Working Temperature | 0 to 55 °C |
| Storage Temperature | 0 to 55 °C |
| Relative Humidity | 95% RH Non-condensing |
| Warm up time | 5 minutes |

Mechanical Characteristics

| | |
|-----------------------|--------------------------------|
| Mounting Type | Panel Mount |
| Dimension (HxWxD) mm | 101 x 101 x 43 |
| Panel Cutout (HxW) mm | 92 x 92 |
| Material | Polycarbonate (PC) |
| Front Enclosure | ABS |
| Terminal Screw Size | M3.5 |
| Screw Torque (N.m) | 0.5 |
| Wire Gauge (AWG) | 26-14 |
| Weight (Approx) gms | Unpacked : 260 Packed : 290 |
| Accessories | 1 Pair of Mounting Clamps |