



SMP72 - DC



SMP72 - AC

**Features**

- High Accuracy Across the Entire Range
- User Programmable Display (Primary CT / Shunt Value)

**Specifications**

- **Measuring Method** TRMS Using Microcontroller
- **Display Type** Red LED Super Bright Display
- **Maximum Display** 4 Digit / 9999 (Max.) Counts
- **Resolution** 0.001 to 1 Count Depending on Range / Scale Display
- **Decimal Point** Auto Selection
- **Over Range Indication** " Or "
- **Under Range Indication** NA
- **Sampling Rate** 3 Samples / Second
- **Maximum Overload** Voltage : 1.2 Times Continuous  
Current : 1.5 Times Continuous
- **Mounting Clamps** Sturdy, Moulded Derlin with Suitable Hardware
- **Frequency Response** 40 - 400Hz

- 9999 Count (Max) High Resolution Display
- Auto Selection of Decimal Point

- **Auxiliary Supply** 230V AC  $\pm 20\%$  @ 50 / 60Hz
- **VA Burden (Typical)** Auxiliary :  $\leq 2.5VA$   
Voltage Input :  $\leq 0.6VA$   
Current Input :  $\leq 0.5VA$
- **Environmental Conditions** 0°C to +55°C, < 70% RH (Operation)  
-10°C to +70°C, < 70% RH (Storage)  
27°C  $\pm 5^\circ C$  (Calibration)
- **Dielectric Strength** 2.5KV @ 50Hz for 1 minute between Input - Auxiliary & Case -Terminals
- **Impulse Withstand** 3.5KV, 1.2 / 50 micro second
- **Case / Housing Material** Polycarbonate, Black
- **Faceplate / Lens** Polycarbonate Transparent Red
- **Connectors / Terminal** Nylon 66, 33% GF, Black / Brass
- **Display Stability** Within  $\pm 1$  Digit

| MODEL | INPUT | RANGE (ANY ONE ONLY) | PROGRAMMABLE DISPLAY KEY | AUX SUPPLY | ACCURACY                       | DIGITS (Max.)      |   | DIGIT HEIGHT |   |
|-------|-------|----------------------|--------------------------|------------|--------------------------------|--------------------|---|--------------|---|
|       |       |                      |                          |            |                                | 3                  | 4 |              |   |
| SMP72 | DC    | mV                   | 0 - 50                   | ✓          | 230V AC $\pm 20\%$ @ 50 / 60Hz | $\pm 0.5\%$ of FSD | - | ✓            | ✓ |
|       |       |                      | 0 - 60                   | ✓          |                                |                    | - | ✓            | ✓ |
|       |       |                      | 0 - 75                   | ✓          |                                |                    | - | ✓            | ✓ |
|       |       |                      | 0 - 100                  | ✓          |                                |                    | - | ✓            | ✓ |
|       |       |                      | 0 - 150                  | ✓          |                                |                    | - | ✓            | ✓ |
|       |       |                      | 0 - 200                  | ✓          |                                |                    | - | ✓            | ✓ |
|       | V     | 0 - 20, 200, 1000    | -                        | -          |                                |                    | ✓ | ✓            |   |
|       | mA    | 0 - 2, 20, 200       | -                        | -          |                                |                    | ✓ | ✓            |   |
|       | A     | 0 - 2, 5             | -                        | -          |                                |                    | ✓ | ✓            |   |
|       | AC    | V                    | 0 - 20, 200              | -          |                                |                    | - | ✓            | ✓ |
| 750   |       |                      | -                        | -          | ✓ (Standard)                   | ✓ (Optional)       | ✓ |              |   |
| A     |       | 0 - 1, 5             | ✓                        | -          | -                              | ✓                  | ✓ |              |   |

**User Programmable Display (Using Key)**

| CT / Shunt Primary Value |    |     |     |     |      |      |      |      |
|--------------------------|----|-----|-----|-----|------|------|------|------|
| 1                        | 25 | 70  | 150 | 350 | 700  | 1500 | 4000 | 8000 |
| 5                        | 30 | 75  | 175 | 400 | 750  | 1600 | 5000 | 9000 |
| 10                       | 40 | 80  | 200 | 450 | 800  | 2000 | 6000 | -    |
| 15                       | 50 | 100 | 250 | 500 | 1000 | 2500 | 7000 | -    |
| 20                       | 60 | 125 | 300 | 600 | 1200 | 3000 | 7500 | -    |

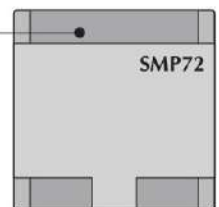
**Ordering Information :** Model, Input & Range, 3 Digits / 4 Digits for 750V AC Voltmeter

| Terminal Connection       |   |       |    |  |
|---------------------------|---|-------|----|--|
| AC AUX<br>230V $\pm 20\%$ |   | INPUT |    |  |
| P                         | N | LO    | HI |  |
| 1                         | 2 | 3     | 4  |  |

**SMP72**

| Dimensions (mm)      |         |
|----------------------|---------|
| Model                | SMP72   |
| Front                | 72 x 72 |
| Depth (Behind Bezel) | 43      |
| Panel Cut-Out        | 68 x 68 |

**Programmable Display Key**



Back Side of Meter