

AC Current Meters



Feature

True power system design complaints
ANSI-IEEE, IEC & VDE standards
High over capability
Available 4-1/2 digits
High accuracy of 0.2% fs
Measurement of distorted waveform signals
Super rate display of 0.56"

Applied rules and standards

| | |
|---------------------------|--|
| Measuring & conversion | IEC 688 |
| Dielectric strength | IEC 688 |
| Impulse & Surge test | ANSI C37.90.1/1989 IEC 255-3 (1989) |
| Adaptability-power system | IEC 0110 |
| Measuring reliability | VDE 3540 |

Description

The model UMA series, are designed under micro base, and it also designed for general performance or accept Ac input signals & convert AC to DC of average responding to scale rms reading.

The unit type of ration input ranges are defined to accept a secondary signal from CT & calibrated to primary reading & the named type of input ranges just directly follow inputs as a display reading.

The designed specifications of the units, truly a real power system design, compliant ANSI-IEEE & IEC, VDE those standards providing full protection for surge intrusion & unusual over input to assure reliable operation.

Specification

| | |
|---------------------------|--|
| Accuracy (23±3°C) | 0.2% fs |
| Stability | Temperature coefficient < 50 ppm per degree C. Long term draft < 0.2% per year |
| Digits / counts / display | Maximum 19999 counts of 4-1/2 digits. 0.56" super rate LED |
| Response time | Sample rate 1 of per sec typically |
| Input burden | 0.25VA maximum |
| Input over | Current input : 3 x rating-continuous, 10 x rating - 30 sec, 25 x rating - 3 sec |
| Frequency | 48 - 400 Hz |
| Dielectric strength | 2.5KV rms / 1 minute, all terminals to reference ground (case) 2KV rms / 1 minute, input terminals to power terminals |
| Surge test | ANSI C37.90.1/1989, IEC 255-3 (1989) |
| Impulse voltage | Impulse voltage 1.2 x 50 us 4KV Oscillation wave 0.5us - 100KHz 3KV & 1MHz - 0.25ms 2.5KV |
| Operation condition | Temperature range -10 to 55°C, 0 to 99% RH non-condensed Storage -25 to 70°C, 20-99% RH non-condensed |
| Auxiliary power | AC / DC version < 3.5VA, DC option version ±20% < 5 watts |

Order from

Function
Average to RMS reading

Model

UMA

U

U

Frame (in mm)

| | |
|-------|---|
| 96X48 | U |
|-------|---|

Auxiliary power

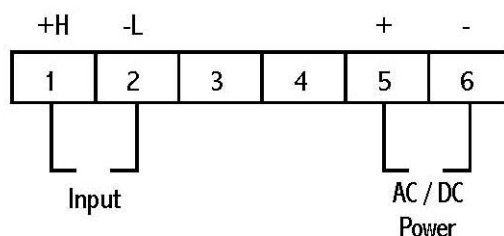
| | | |
|-----------------|---|---|
| AC / DC 30-250V | ★ | S |
| DC option 24V | | 1 |

★ : This segment was originally used in the circuit of traditional transformer, and new model uses switching power circuit where in the wide range power system

Input ranges

| CT ratio = P/S P : Primary S : Secondary | | | | | | Named input type | |
|--|------|------|-------|------|------|-------------------|----|
| Ratio type | | | | | | | |
| | P/5A | P/1A | | P/5A | P/1A | | |
| 20A | A5 | A1 | 300A | M5 | M1 | 0-400.0uA | 12 |
| 25A | B5 | B1 | 400A | N5 | N1 | 0-4.000mA | 13 |
| 30A | C5 | C1 | 500A | O5 | O1 | 0-40.00mA | 14 |
| 40A | D5 | D1 | 600A | P5 | P1 | 0-400.0mA | 15 |
| 50A | E5 | E1 | 750A | Q5 | Q1 | 0-4.000A | 16 |
| 60A | F5 | F1 | 800A | R5 | R1 | 0-20.00A (option) | 17 |
| 75A | G5 | G1 | 1000A | S5 | S1 | | |
| 80A | H5 | H1 | 1200A | T5 | T1 | | |
| 100A | I5 | I1 | 1500A | U5 | U1 | 0-2.0000mA | 22 |
| 150A | J5 | J1 | 1600A | V5 | V1 | 0-20.000mA | 23 |
| 200A | K5 | K1 | 2000A | W5 | W1 | 0-200.00mA | 24 |
| 250A | L5 | L1 | 2500A | X5 | X1 | 0-2.0000A | 25 |
| The other range | | | | | | | AY |

Terminal connection



Dimension

U TYPE

