

4 1/2 DIGITAL AMP / VOLT METER

CMA-421

FEATURES

- **Multi-Range input** for Current or Voltage
- Accuracy: $\pm 0.1\%$ of full scale
- 4 1/2 Digital display: -19999~19999
- User function, Easily programmable via the front panel
- CE approved



SPECIFICATION

| Measuring Range | | Input Impedance | Input Range Changing | Variable to be measured |
|-----------------|------------|-----------------|-------------------------------|-------------------------|
| Current | 0 ~ 1 A | 0.05 ohm | Connecting via four terminals | DC AC |
| | 0 ~ 5 A | 0.02 ohm | | |
| | 0 ~ 10 A | 0.01 ohm | | |
| Voltage | 0 ~ 150 V | $\geq 1M$ ohm | Connecting via four terminals | |
| | 0 ~ 300 V | $\geq 1M$ ohm | | |
| | 0 ~ 600 V | $\geq 1M$ ohm | | |
| mV | 0 ~ 100 mV | $\geq 10M$ ohm | Can not change | DC |

- Calibration: System calibration by front key
- Accuracy: $\pm 0.1\%$ F.S. ± 1 digit
- Sampling time: About 20 cycles/sec.
- Display functions
- LED: 0.56" red high bright LED
- Quick view: One press to check all parameters
Average Display: 1~99 times sampling
- Over-range indication: Reading flash: When input signal was between 100~120% of input Hi
OFL: When input signal was over 120% of input Hi

- Operating
- Operation key: Keys are Behind front cover
Four key for Enter(Function) / Shift / Up / Down
Up: increase the number in flash digit / return back
Down: decrease the number in flash digit
Shift: move the flash digit position
Enter/Function: enter the parameter you set or functions select
- Security function: 4 digits Password / Data Lock

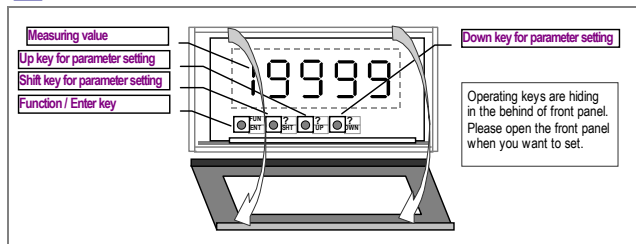
- Input & ratio setting
- Multi-range input: Current input: 3 ranges for 1A / 5A / 10A
Voltage input: 3 ranges for 150V / 300V / 600V
mV input (for shunt): only one range input for 100 mV
PT or CT: Primary & secondary are settable
Shunt: ratio settable base on 0~100 mV input
Settable Range of primary: -19999~+19999
- Ratio setting: Decimal Point selectable in any digit

- Decimal point: Power
- Power Supply: AC 115/230V, 50/60 Hz
Option: DC 24V, 48V, 110V
- Power consumption: 4.5VA
- Back up memory: By EEPROM

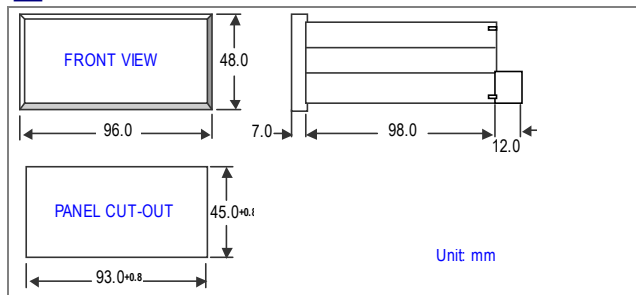
- Environmental
- Operating temperature: 0~55 °C
- Operating relative humidity: 20~90 %RH, non-condensing
- Temperature coefficient: ≤ 100 PPM/ °C (0~50 °C)
- Storage temperature: -10~70 °C

- Enclosure: Front panel: IEC 529 (IP52)
- Electrical safety
- Dielectric Strength: AC 2.0KV for 1 min between Input / Power / Case $\geq 100M$ ohm
- Insulation: EN61000
- EMC: EN61010
- Safety: EN61010
- Mechanical
- Panel cutout: 93mm x 45mm
- Case Materiel: Black ABS fire-protection
- Mounting: Panel flush mounting
- Connection: Screw terminal & removable connector
- Weight: 500 g

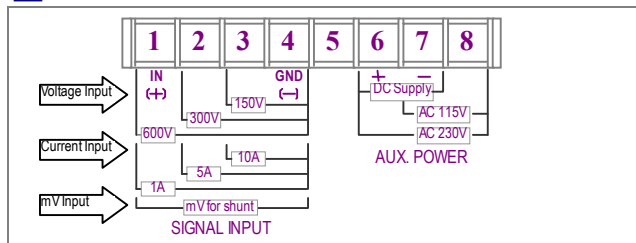
FRONT PANEL



DIMENSIONS



CONNECTION DIAGRAM



ORDER INFORMATION

CMA-421 Input Type — Aux. Power

| CODE | INPUT TYPE | CODE | AUX. POWER | CODE | AUX. POWER |
|------|---------------------|------|--------------|------|------------|
| AA | 1 / 5 / 10 Aac | A | AC 115/230 V | D024 | DC 24 V |
| AD | 1 / 5 / 10 Adc | A380 | AC 380 V | D048 | DC 48 V |
| VA | 150 / 300 / 600 Vac | A415 | AC 415 V | D110 | DC 110 V |
| VD | 150 / 300 / 600 Vdc | A024 | AC 24 V | | |
| VM | 0 ~ 100 mV | | | | |

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