

AC Current Transducer

SPAX Three units



- ⊙ Self - power mode, zero adj. - non required
- ⊙ Standard output with 0 to 1 mAdc
- ⊙ Accuracy of reading base 0.25% reading + 0.02% ro
- ⊙ Rugged steel enclosure of high magnetic immunity
- ⊙ Meets IEEE SWC test

Description

HC power current transducer is with design of reading base accuracy & non zero adjustment required very ideally applied for an accurate measurement of AC current input.

Self power mode design is to simplify wire connection without external power particularly useful for user in field application.

Model are available for three current units with average responding scaled to RMS output.

Specification

1. Accuracy 0.25% RD + 0.02%RO / 23 ± 3°C

2. Input (each element)

Range	Effective current 0 - 6A; nominal current 5A
Over capability	15A continuous ; 50A ... 10sec / hour; 250A ... 1sec / hour; 400A ... 0.5sec / hour
Burden	< 2VA at 5A input
Frequency	50 - 70Hz
Protection	Full protection for SURGE, EMI & RFI

3. Output (isolated with input)

Range	Standard DC 0 to 1mA DC 0 to 1mA calibration vs AC 0 to 5A
Output load	Maximum 10Kohm for 0 to 1mA ouput
Output impedance	> 30 Mega ohm
Response time	< 400 ms from 0 to 99% RO at operating
Ripple	< 0.5% P-P RO
Long term stability	< 0.1% RO per year (typically)
Temperature stability	< 0.01% per degree C, from 0 to 55°C
Adjustment	Span ± 5% / 10%; zero ... non
Protection	No damage ... open or short; full protection ... SURGE, EMI, RFI
Magnetic effecton	< 0.04% at center 400 A-T / M

4. Operation condition

Environment

Temperature -5 to 60°C

Humidity 20 to 99% RH non condensed

Elevation Under 3000 meters

Magnetic field 500 A-T / M

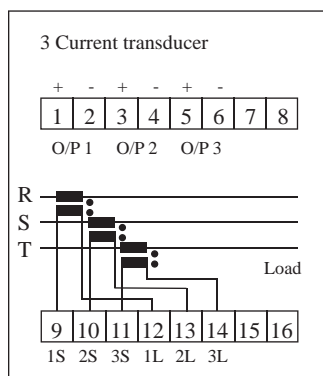
Waveform Sinusoidal

Dielectric strength 4KV AC rms 1 minute between input / output / power / case IEC 688

Impulse test ANSI C37.90/1989, IEEE 587/1983,
IEC 255-3, 6KV (1.2 x 50 us), 3KA (8 x 20 us) current only

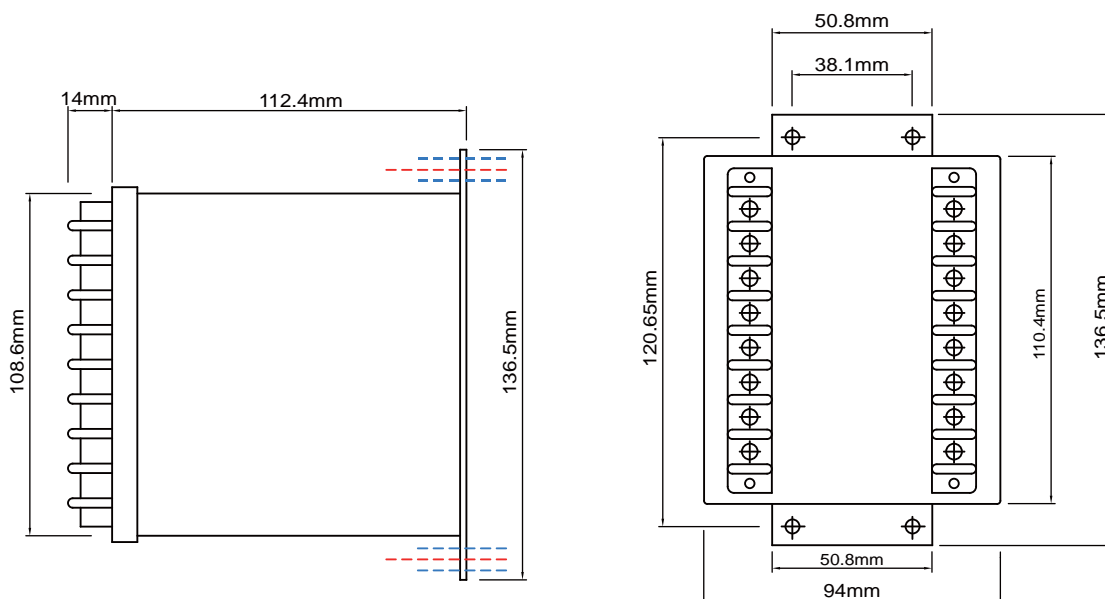
Surge test (ring wave) IEEE 587/1983 (3KV - 0.5us / 100KHz)
IEC 255-3 (2.5KV-0.25ms / 1MHz)

Terminal Connection



- * Self power mode - non external power required
- * 3 independent units applied for 3 phase system

Dimension



HSIANG CHENG ELECTRIC CORP.

4F., No.11, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan

TEL : 886-2-2917-5865~9

E-mail : expo.sales@hc.com.tw

FAX : 886-2-2917-3946

http://www.hc.com.tw