DWG NO. : 06220057
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AC Voltage Transducer

SPV Single unit

◎ Self - power mode
◎ 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 voltage transducer is with reading base accuracy conversion ideally applied for an accurate measurement of AC voltage input, with self power mode of non external power design to simplify wire connection particularly useful for user in field application.
Models are available for one voltage unit with average responding scaled to RMS output.

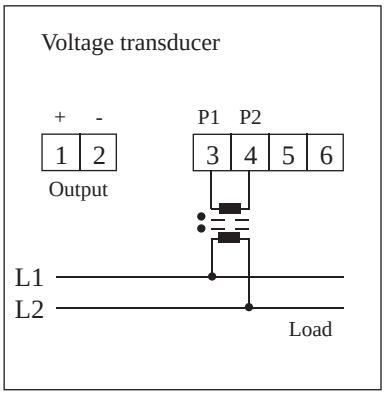
Specification

1.Accuracy	0.25% RD + 0.02%RO / 23 ± 3°C
2.Input (each element)	
Range	Effective voltage 0 - 165V; nominal voltage 120V
Over capability	Voltage 200V continuous ;250V ... 10sec / hour; 300V ... 5sec / hour
Burden	Voltage < 3VA at 120V 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 150V
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% on request; zero ... non
Protection	No damage ... open or short; full protection ... SURGE, EMI, RFI
Magnetic effection	< 0.04% at center 400 A-T / M

4.Operation condition

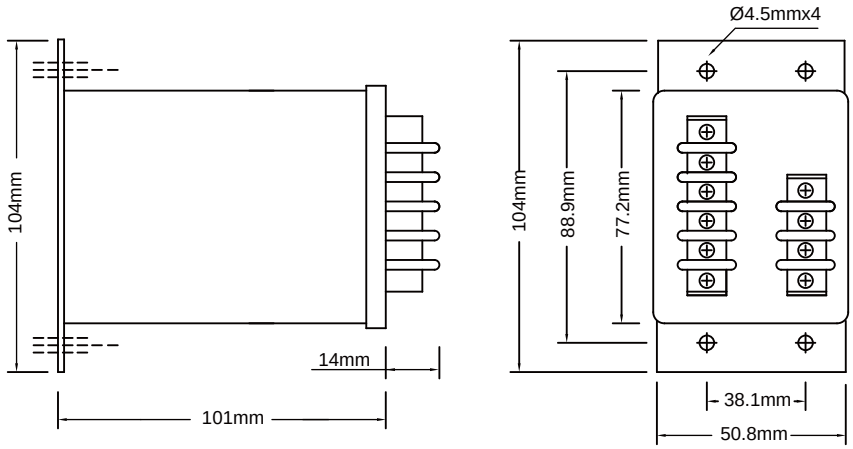
Environment	
Temperature	-5 to 60°C
Humidity	20 to 99% RH non condensed
Elevation	Under 3000 meters
Magnetic field	500 A-T / M
Waveform	Sinusoidal
Dielectric strength	4KV AC rms 1 minute between input / output / power / case IEC 688
Impulse test	ANSI C37.90/1989, IEEE 587/1983, IEC 255-3, 6KV (1.2 x 50 us), 3KA (8 x 20 us) .... current only
Surge test (ring wave)	IEEE587/1983 (3KV - 0.5us / 100KHz) IEC 255-3 (2.5KV - 0.25ms/ 1MHz)

Terminal Connection



* Self power mode - non external power required

Dimension



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