



## Insulation Transmitter

### MVI

Insulation Transmitter **MVI** is a transmitter of all-purpose signal, it was would insulated deleterious voltage with meter, computer or other measurement meter, it was also would used loop of cut earthing signal; it was input alternating signal or directing signal of high range directly, it was also measurement receiving as  $\pm 100\text{mV}$  low-lying measurement range DC or AC peak value signal; MVI should output voltage signal and current signal at the same time, voltage output peak value should reach 10V, current output was single direction value, however, it was adopted high current level offset when input signal was zero, it is should used input of AC or bidirectional DC namely.

#### *Technical Parameter:*

#### *Signal Input:(see remark 1)*

Range of voltage:	minimum full measurement range	00-- $\pm 100\text{mV}$
Range of voltage:	maximal full measurement range	00-- $\pm 1500\text{V}$
Range of current:	minimum full measurement range	00-- $\pm 1\text{mA}$
Range of current:	maximal full measurement range	00-- $\pm 2.5\text{A}$
Input impedance of full measurement range:	$\pm 1000\text{mv}$ -- $\pm 5\text{V}$	> 10M
	$\pm 5\text{V}$ -- $\pm 1000\text{V}$	10K
	$\pm 1000\text{V}$ -- $\pm 1500\text{V}$	6.6M /
	$\pm 1\text{mA}$ -- $\pm 2.5\text{A}$	R=0.1V $\div$ 1(mA)

Frequency: DC—4KHz

#### *Voltage Output:*

Precision:(see remark 2)  $\pm 0.1\%$



Range:  $\pm 10\text{V}$  peak value  
Load resistance: 1000 ohm min  
Temperature drift:  $\pm 0.01\%$ / max  
Response time:  $< 150\mu\text{s}$   
Frequency response: -3db 4KHz  
Yawp: 4mV AC max

*Current Output(single direction):*

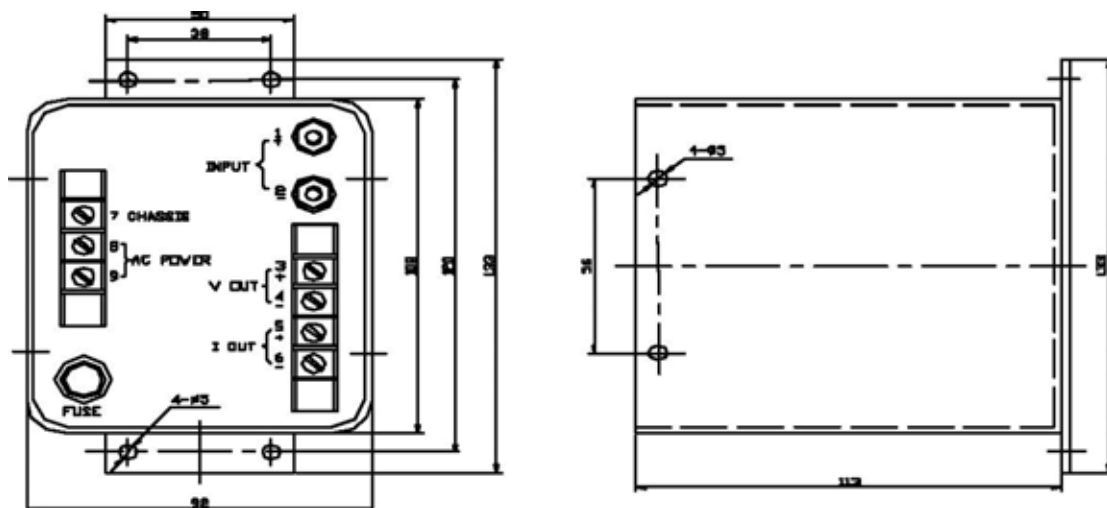
Frequency:(see remark 2)  $\pm 0.2\%$   
Range: 0-20mA DC or 4-20mA  
Load resistance: 500 ohm max  
Temperature drift:  $\pm 0.02\%$ / max  
Response time:  $< 250\mu\text{s}$   
Yawp:  $\pm 0.02\text{mA}$  AC max  
Ofset current:(stipulation ouput in 0V) 0-13mA max  
To load error:  $\pm 0.1\%$  max  
Linearity error:  $\pm 0.05\%$   
Range of environment working temperature: 0 to 60  
Power supply input: 105-125V or 210-250V AC, 50-60Hz, 7VA

Isolation of input and output:	$\pm 2500V$	DC or AC peak value, continuum
Crust and output, or AC:	500V	AC max
Output and AC:	500V	AC max
Share module control:	> 90dB	in 60Hz
Weight:	2Kg	(reference)

Remark 1: All current error of data should express percent of full measurement range.

Remark 2: Reference Condition: input signal is full measurement range; temperature  $25 \pm 1$  ; power supply  $115 \pm 5V$ , 60Hz; voltage load resistance of output end larger than 1000 ; current load resistance of output end is 500 . Please keep modification right when no annex explanation.

*Figuration size and end definition:*



*Order Notice:*

Please explanation by user:



Voltage input of full measurement range DC (or AC peak value)

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Departure value current (stipulation when input zero)

Power supply voltage

Low current frequency close point

Please contact with Beiing LEM Electronic Cor. Ltd if need further detail documents.