LA/LV AC Current / Voltage Transducer

■ FEATURES

- 1 Phase (1 I/O) or 3 Phase (3 I/O)
- Precision measurement even for distorted waveforms with our True RMS option
- Self-powered or loop-powered models available
- Output signal programmable by dip-switch
- Low output ripple
- High impulse & surge protection
- High stability & low cost
- High accuracy (<0.5% of F.S.) and 3kV isolation

■ SPECIFICATIONS

INPUT: Current or Voltage

	AC Input		Input Burden	Input Frequency
Current	Aux. Powered & Loop Powered	0 ~ 1 A	≦0.10VA	50 Hz ± 3 Hz
		0 ~ 5 A		60 Hz ± 3 Hz
		0 ~ 10 A		
	Self-Powered	20%~100% of input range	≦1.50VA	50 Hz ± 1 Hz
				60 Hz ± 1 Hz
Voltage	Aux. Powered & Loop Powered	0 ~ 150 V	≦0.15VA	50 Hz ± 3 Hz 60 Hz ± 3 Hz
		0 ~ 300 V		
		0 ~ 500 V		
	Self-Powered	20%~100% of input range	≦4.00VA	50 Hz ± 1 Hz
				60 Hz ± 1 Hz

OUTPUT: Current or Voltage O/P Programming by Dip Switch inside

Output Range	Load Resistance	Output Resistance	Output Ripple	
0 ~ 1 V	≧500Ω	≦0.001Ω	≦0.2% F.S.	Self-powered units can not be used for 4~20mA, 1~5V and 2~10V output.
0 ~ 5 V	≧500Ω ; Self Powered: ≧2KΩ			
0 ~ 10 V	≧1000Ω ; Self Powered: ≧2KΩ			
1 ~ 5 V	≧500Ω			
0 ~ 1 mA	0 ~ 12KΩ	≧20MΩ		
0 ~ 10 mA	0 ~ 1200Ω ; Self Powered: ≧500	≧6MΩ		
0 ~ 20 mA	0 ~ 600Ω ; Self Powered: ≧500			
4 ~ 20 mA	0 ~ 600Ω			
Loop Powered 4 ~ 20 mA	Vs / (20 mA) - 900Ω			

Accuracy: ≦±0.5% of F.S.
Waveform effect ≦0.2% of F.S. at 30% distortion
Max. input over capability: Voltage: 1.5 x rated continuous
2 x rated for 10 seconds
4 x rated for 2 seconds
Current: 3 x rated continuous
10 x rated for 10 seconds
50 x rated for 1 second
Response time: ≦250 mS
Span adjustment: ≦±5% of F.S.
Zero adjustment: ≦±2% of F.S.
Output load effect: Current output ≦0.1% of F.S.
Voltage output≦0.05% of F.S.
Power supply: ADH : AC 85~264V · DC 100~300V
ADL : AC / DC 20~56V
Loop powered DC 18 ~ 32V

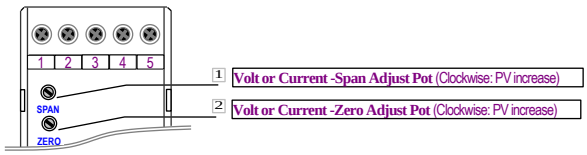
Power effect: ≦0.05% F.S.
Power consumption: ≦10 VA(1P2W) ; ≦12 VA(3P3W)
Mutual interference effect: ≦0.1% R.O. between each element
Magnetic field strength: 400ATM ≦0.2% F.S.
Operating temperature: 0~60℃
Operating relative 20~95 %RH, non-condensing
Temperature coefficient: ≦100 PPM/℃
Storage temperature: -10~70℃
Dielectric Strength: IEC 414, IEC 688:1992, ANSI C37.90a
Between Input / Output / Power / Case

Surge test: AC 3KV, 50/60Hz, 1 minute
IEC 255-4, ANSI C37.90a
6KV, 1.2 x 50 μsec.
Common mode & differential mode
Insulation resistance: ≧100MΩ, DC 500V
Safety: IEC 414, BS 5458
Enclosure: IEC 529 (IP50)
Certification Standards IEC 60688

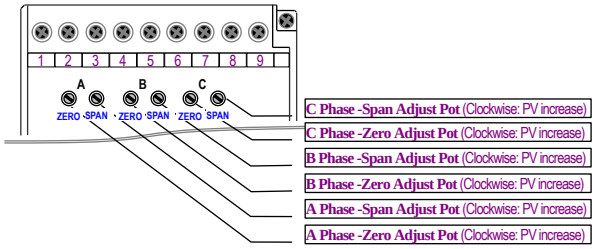
CE: EMC:EN61326:2003
Safety(LVD): EN61010:2001
Case material: ABS Non-flammable (UL 94V-0)
Mounting: Wall or DIN rail (EN 50022)
Weight: 1P: approx. 500g, 3P: approx. 750g

■ ADJUSTMENT

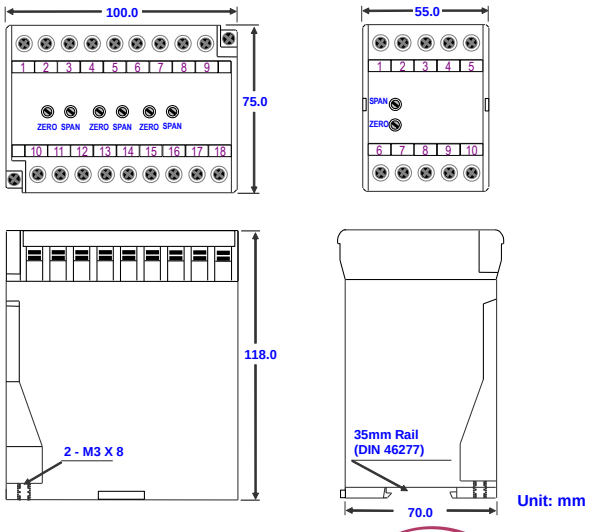
Volt or Current – 1 Phase



Volt or Current – 3 Phases



■ DIMENSIONS



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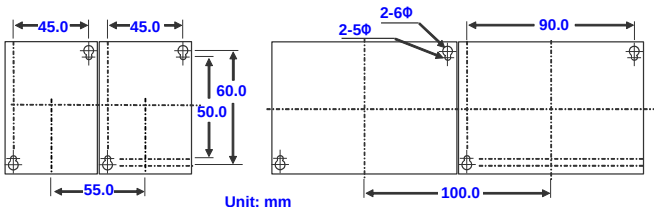
PANEL MOUNTING HOLES



OUTPUT RANGE PROGRAMMING

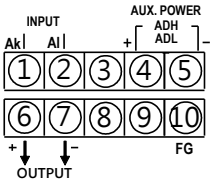
OUTPUT	Dip Switch							
	1	2	3	4	5	6	7	8
0 ~ 1 mA					on			
0 ~ 10 mA					on	on		
0 ~20 mA					on		on	
4 ~ 20 mA	on				on		on	
0 ~ 1 V		on	on	on				on
0 ~ 5 V			on	on				on
0 ~ 10 V				on				on
1 ~ 5 V	on		on	on				on

* Pads: blank fields mean open.

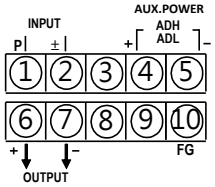
CONNECTION DIAGRAM

1 Phase (Auxiliary Powered)

Current Input:

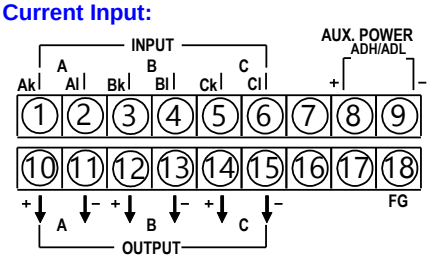


Voltage Input:

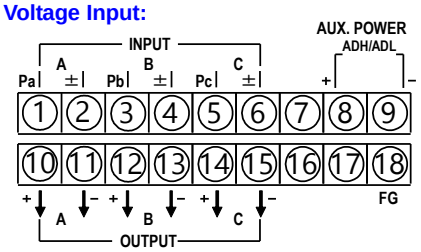


3 Phase (Auxiliary Powered)

Current Input:

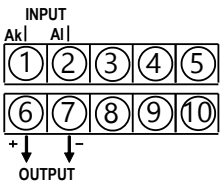


Voltage Input:

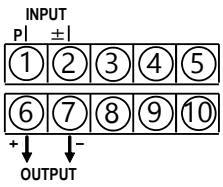


1 Phase (Self Powered)

Current Input:

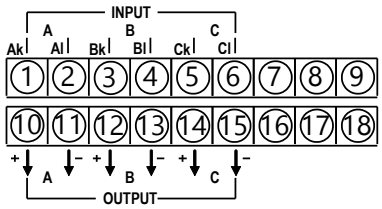


Voltage Input:

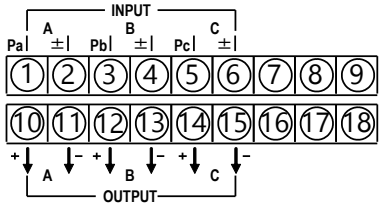


3 Phase (Self Powered)

Current Input:

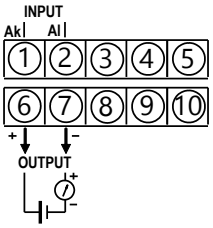


Voltage Input:

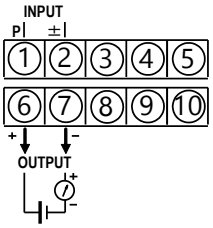


1 Phase (Loop Powered)

Current Input:



Voltage Input:



ORDERING INFORMATION

L — Input Type — Connection — Input — Input Freq. — Output — Aux. Power

CODE	INPUT TYPE
A	Current (Avg.)
AT	Current (Trms)
V	Voltage (Avg.)
VT	Voltage (Trms)

CODE	INPUT
A1	0 ~ 1 A
A5	0 ~ 5 A
AA	0 ~ 10 A
V1	0 ~ 150 V
V3	0 ~ 300 V
V5	0 ~ 500 V

CODE	INPUT FREQ.
5	50Hz ±3Hz
6	60Hz ±3Hz

CODE	OUTPUT RANGE	COD	OUTPUT RANGE
A1	0 ~ 1 mA	V1	0 ~ 1 V
A3	0 ~ 10 mA	V2	0 ~ 5 V
A4	0 ~ 20 mA	V3	0 ~ 10 V
A5	4 ~ 20 mA	V4	1 ~ 5 V

* Self-powered units can not be used for 4~20mA, 1~5V output.

CODE	AUX. POWER
ADH	AC85~264V DC100~300V
ADL	AC/DC20~56V
LP	Loop Powered
AS	Self Powered

CODE	CONNECTION
12	1Phase (1 I/O)
33	3Phase (3 I/O)

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