

CA/CV 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 (<0.2% of F.S.) and 4kV isolation



SPECIFICATIONS

INPUT: Current or Voltage

	AC Input		Input Burden	Input Frequency	
Current	Aux. Powered & Loop Powered	0 ~ 1 A 0 ~ 5 A 0 ~ 10 A	≤ 0.10VA	50 Hz ± 3 Hz 60 Hz ± 3 Hz	
	Self-Powered	20%~100% of input range			50 Hz ± 1 Hz 60 Hz ± 1 Hz
Voltage	Aux. Powered & Loop Powered	0 ~ 150 V 0 ~ 300 V 0 ~ 500 V	≤ 0.15VA	50 Hz ± 3 Hz 60 Hz ± 3 Hz	
	Self-Powered	20%~100% of input range			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	≥ 500 Ω	≤ 0.001 Ω	≤ 0.2%	Self-powered units can not be used for 4~20mA, 1-5V and 2-10V output.
0 ~ 5 V	≥ 500 Ω ; Self Powered: ≥ 2KΩ			
0 ~ 10 V	≥ 1000 Ω ; Self Powered: ≥ 2KΩ			
1 ~ 5 V	≥ 500 Ω	≥ 20MΩ		
0 ~ 1 mA	0 ~ 12KΩ			
0 ~ 10 mA	0 ~ 1200 Ω ; Self Powered: ≥ 500	≥ 6MΩ	F.S.	
0 ~ 20 mA	0 ~ 600 Ω ; Self Powered: ≥ 500			
4 ~ 20 mA	0 ~ 600 Ω			
Loop Powered 4 ~ 20 mA	Vs / (20 mA) - 900 Ω			

Accuracy: ≤ ±0.2% 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°C
Operating relative Temperature coefficient: 20~95 %RH, non-condensina
 ≤ 100 PPM/°C
Storage temperature: -10~70°C
Dielectric Strength: IEC 414, IEC 688:1992, ANSI C37.90a
 Between Input / Output / Power / Case

Surge test:

AC 4KV, 50/60Hz, 1 minute
 IEC 255-4, ANSI C37.90a
 6KV, 1.2 x 50 μsec.

Insulation resistance:

Common mode & differential mode
 ≥ 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:

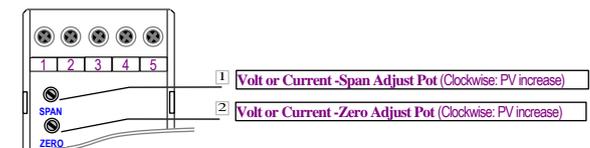
Wall or DIN rail (EN 50022)

Weight:

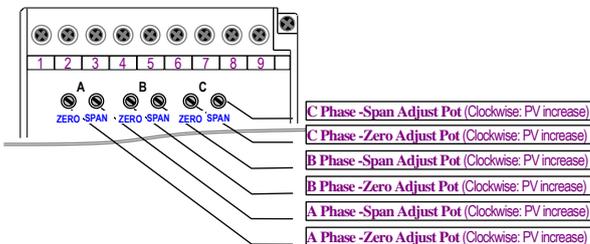
1P: approx. 500g, 3P: approx. 750g

ADJUSTMENT

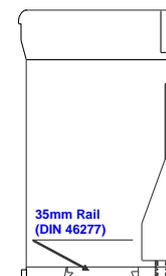
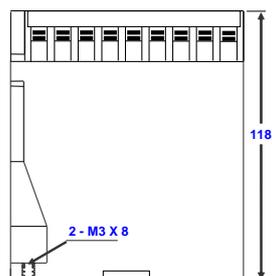
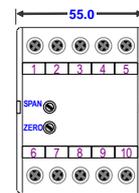
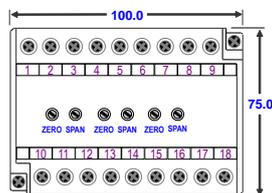
Volt or Current – 1 Phase



Volt or Current – 3 Phases



DIMENSIONS



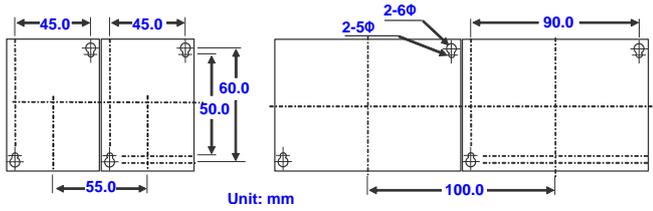
Unit: mm



University
 UNIVERSITY PATON INSTRUMENTS - THE EDUCATED CHOICE



PANEL MOUNTING HOLES



OUTPUT RANGE PROGRAMMING

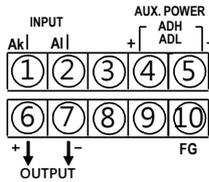
OUTPUT	Dip Switch							
	1	2	3	4	5	6	7	8
0 ~ 1 mA					on			
0 ~ 10 mA					on	on		
0 ~ 20 mA					on		on	
4 ~ 20 mA	on				on		on	
0 ~ 1 V		on	on	on				on
0 ~ 5 V			on	on				on
0 ~ 10 V				on				on
1 ~ 5 V	on	on	on					on

* Pads: blank fields mean open.

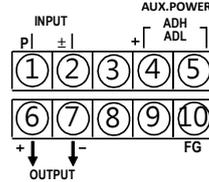
CONNECTION DIAGRAM

1 Phase (Auxiliary Powered)

Current Input:

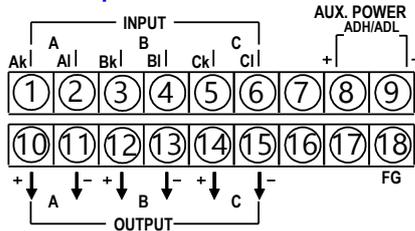


Voltage Input:

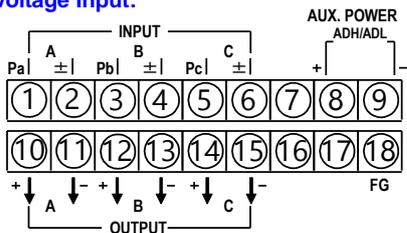


3 Phase (Auxiliary Powered)

Current Input:

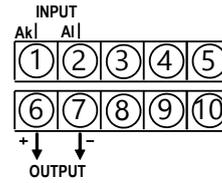


Voltage Input:

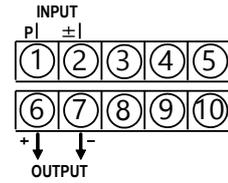


1 Phase (Self Powered)

Current Input:

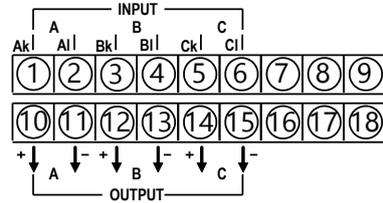


Voltage Input:

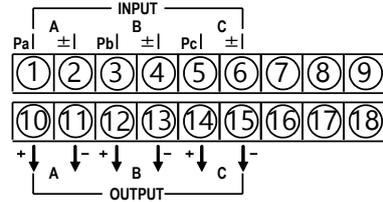


3 Phase (Self Powered)

Current Input:

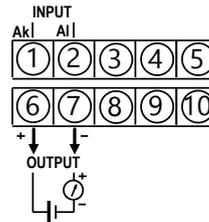


Voltage Input:

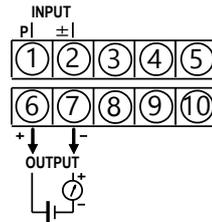


1 Phase (Loop Powered)

Current Input:



Voltage Input:



ORDERING INFORMATION

