



■ FEATURE

- 1Phase(1 I/O), 3Phases(3 I/O)
- Precision measurement even for distorted waveform
- Self powered or Loop powered models available
- Output signal programmable by dip-switch
- Low output ripple
- High impulse & Surge protection
- High stability & low cost
- CE

■ SPECIFICATION

INPUT: Current or Voltage

	AC Input	Input Burden	Input Frequency
Current	Aux. Powered & Loop Powered	0 ~ 1 A	50 Hz $\pm$ 3 Hz
		0 ~ 5 A	60 Hz $\pm$ 3 Hz
		0 ~ 10 A	
	Self Powered	20%-100% of input range	50 Hz $\pm$ 1 Hz 60 Hz $\pm$ 1 Hz
Voltage	Aux. Powered & Loop Powered	0 ~ 150 V	50 Hz $\pm$ 3 Hz
		0 ~ 300 V	60 Hz $\pm$ 3 Hz
		0 ~ 500 V	
	Self Powered	20%-100% of input range	50 Hz $\pm$ 1 Hz 60 Hz $\pm$ 1 Hz

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

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

※When Aux Powered is DC, The Load Resistance is about 70%

Accuracy : $\leq \pm 0.2\%$ of F.S. ; Self Powered $\leq \pm 0.2\%$ of F.S

Waveform effect $\leq 0.2\%$ 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: $\leq \pm 5\%$ of F.S. (or $\pm 20\%$ of F.S. specify)

Zero adjustment: $\leq \pm 2\%$ of F.S. (or $\pm 20\%$ of F.S. specify)

Output load effect: Current output $\leq 0.1\%$ of F.S.

Voltage output $\leq 0.05\%$ of F.S.

Power supply: ADH : AC 85-264V , DC 100-300V

ADL : AC / DC 20-56V

Loop powered DC 18 ~ 32V

Self Powered: Not required

Power effect: $\leq 0.05\%$ F.S.

Power consumption: ≤ 10 VA(1P2W) ; ≤ 12 VA(3P3W)

Mutual interference effect: $\leq 0.1\%$ R.O. between each element

Magnetic field strength: 400ATM $\leq 0.2\%$ F.S.

Operating temperature: 0-60 °C

Operating relative: 20-95 %RH, non-condensing

Temperature coefficient: ≤ 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 min.

IEC 255-4, ANSI C37.90a

6KV, 1.2 x 50 μ sec

Common mode & differential mode

$\geq 100M$ ohm, DC 500V

Insulation resistance:

Safety:

IEC 414, BS 5458

Enclosure:

IEC 529 (IP50)

Certification Standard

CE:

IEC 60688 (Except 3P3W)

Safety(LVD):

EMC:EN61326:2003

Mounting:

EN61010:2001

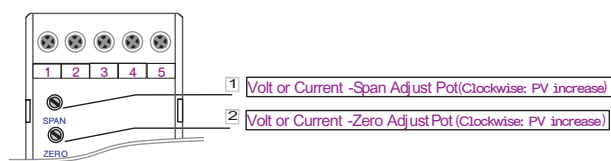
Weight:

Wall or DIN rail (EN 50022)

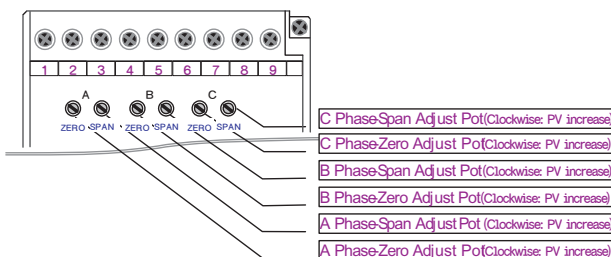
1P: under 450g, 3P: under 650g

■ ADJUSTMENT

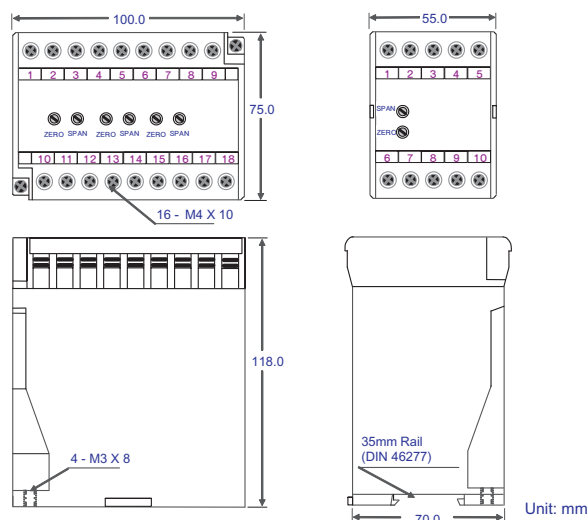
Volt or Current — 1 Phase



Volt or Current — 3 Phases

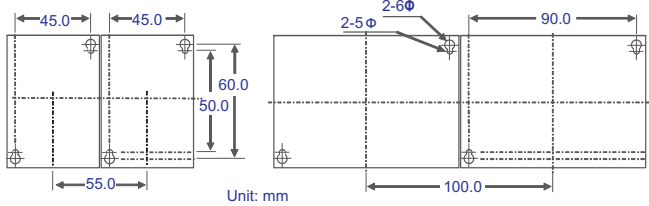


■ DIMENSIONS



Unit: mm

PANEL MOUNTING HOLES



OUTPUT RANGE PROGRAMMING

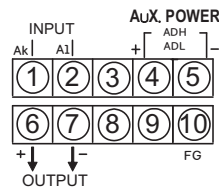
OUTPUT	Dip Switch							
	1	2	3	4	5	6	7	8
0 ~ 1 mA					on			
0 ~ 10 mA					on	on		
0 ~ 20 mA					on		on	
4 ~ 20 mA	on				on		on	
0 ~ 1 V		on	on	on				on
0 ~ 5 V			on	on				on
0 ~ 10 V				on				on
1 ~ 5 V	on		on	on				on

* Pads: blank fields mean open.

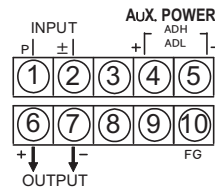
CONNECTION DIAGRAM

1 Phase (Auxiliary Powered)

Current Input:

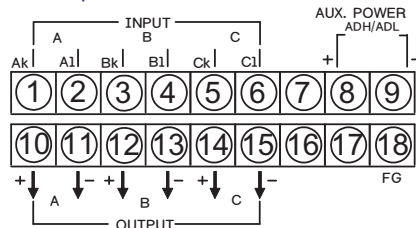


Voltage Input:



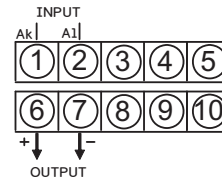
3 Phases (Auxiliary Powered)

Current Input:

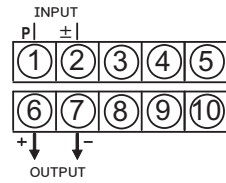


1 Phase (Self Powered)

Current Input:

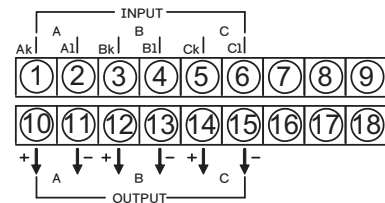


Voltage Input:

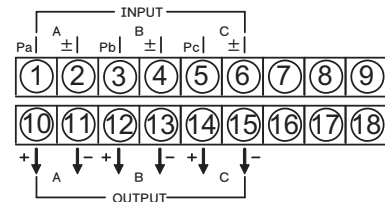


3 Phases (Self Powered)

Current Input:

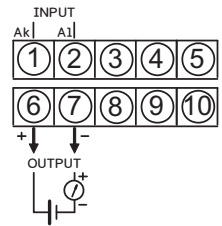


Voltage Input:

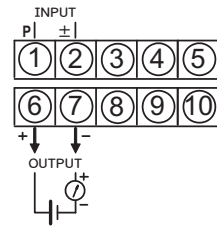


1 Phase (Loop Powered)

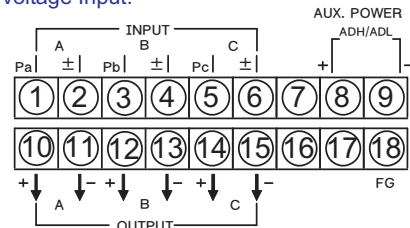
Current Input:



Voltage Input:



Voltage Input:



ORDERING INFORMATION

