

2 SERIES A / V / HZ / W / VAR Transducer

FEATURE

- Transducer and CT combined for AC Current / Volt / Frequency, 1P2W, 3P3W Watt / Var, 1P2W, 3P3W, 3P4W DC Current / Volt
- Direct 300A max measured for AC or DC
- Output signal 4~20mA, 0~10V
- 4~20mA (Loop Powered DC 24V)
- DC Powered (or Loop)
- Small size, Easy installation



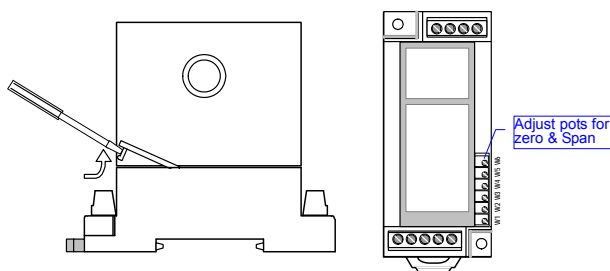
SPECIFICATION

INPUT:			
	Input Range	Input Frequency	Accuracy
DC Current	0 ~ 300 A	DC	≤ ±1.0% F.S.
Current	0 ~ 0.5 A (~300 A)	50 Hz ± 3 Hz	
Voltage	0 ~ 500 V	60 Hz ± 3 Hz	≤ ±0.5% F.S.
Frequency	0 ~ 100 Hz		
Watt	0 ~ 5 A (~ 25 A)	50 Hz ± 3 Hz	
	0 ~ 500 V	60 Hz ± 3 Hz	
Var	0 ~ 5 A (~ 25 A)	50 Hz ± 1 Hz	
	0 ~ 500 V _{eff}	60 Hz ± 1 Hz	

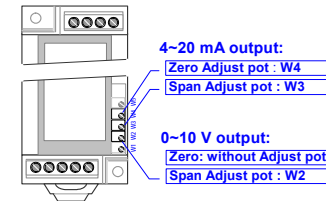
OUTPUT:		
Output Range	Output Ripple	Load Resistance
0 ~ 10 V	≤ 10 mV	≥ 2K ohm
4 ~ 20 mA		≤ 250 ohm
4 ~ 20 mA (Loop Powered)		Vs / (20 mA) - 900 ohm

- Max. input over capability:** Voltage: 1.2 x rated continuous
2 x rated for 1 seconds
Current: 2 x rated continuous
10 x rated for 1 seconds
- Response time:** ≤ 400 msec. For Current, Voltage &
≤ 900 msec. For Watt & Var
- Span adjustment:** ≤ ±10% of F.S.
- Zero adjustment:** ≤ ±2% of F.S.
- Power supply:** Voltage / Current: DC 12V, 24V ±10%
Loop powered DC 24V ±10%
Frequency: DC 12V, 24V ±10%
Watt / Var: DC 12V ±10%
- Power effect:** ≤ 0.05% F.S.
- Power consumption:** A, V, Hz: 200 ~ 500 mW
Watt, Var: ≤ 850 mW
- Operating temperature:** 0~50°C
- Operating relative humidity:** 20~95 %RH, non-condensing
- Temperature coefficient:** ≤ 200 PPM/°C
- Storage temperature:** -10~60°C
- Dielectric Strength:** AC 2.5KV, 50/60Hz, 1 min.
Between Input / Output
- Insulation resistance:** ≥ 100M ohm, DC 500V
- Enclosure:** IEC 529 (IP50)
- Mounting:** 35 mm DIN rail (EN 50022)
- Weight:** Under 220 g

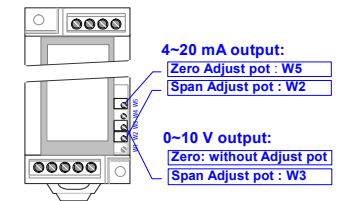
ADJUSTMENT



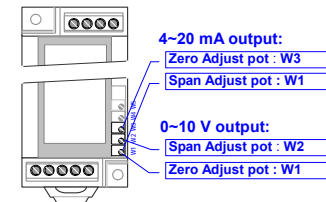
Current / Voltage / Frequency, 1P2W, 2A-12 / 2V-12 / 2F



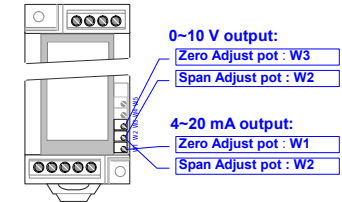
Current / Voltage, 3P3W 2A-33 / 2V-33



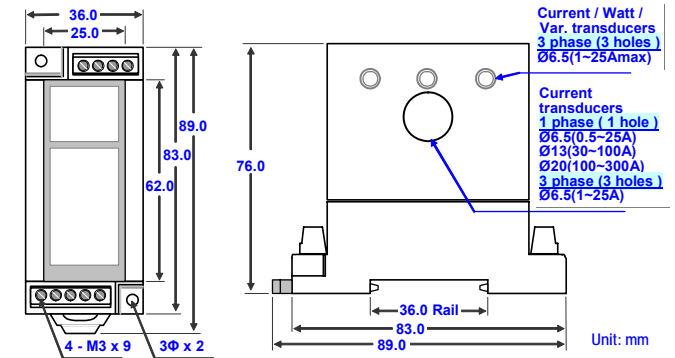
Current / Voltage, DC 2A-DC / 2V-DC



Watt / Var 2W / 2Q

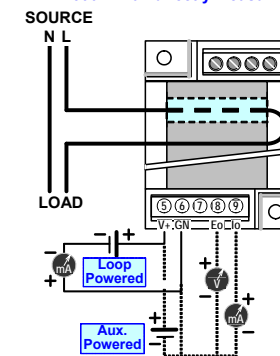


DIMENSIONS

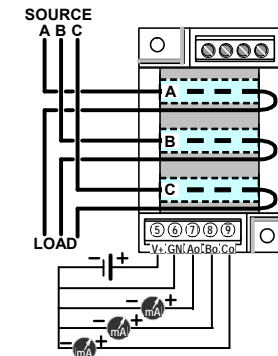


CONNECTION

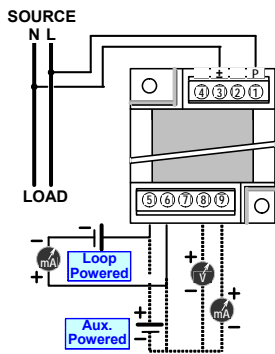
2A-12 Current Transducer
2A-DC Current Transducer (3-wired only),
300 A max directly measuring



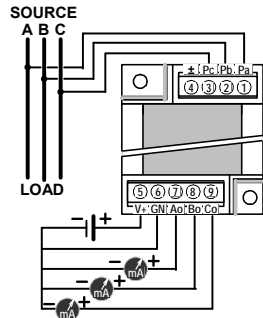
2A-33 Current Transducer
25 A max directly measuring



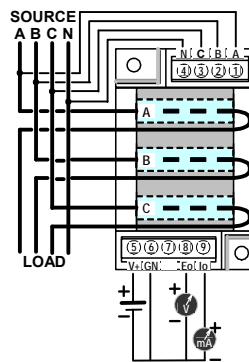
2V-12 Voltage Transducer
500V max directly measuring



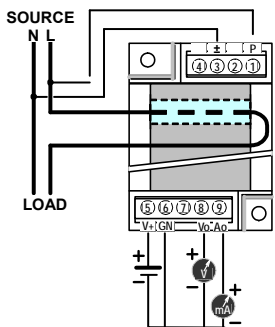
2V-33 Voltage Transducer
500V max directly measuring



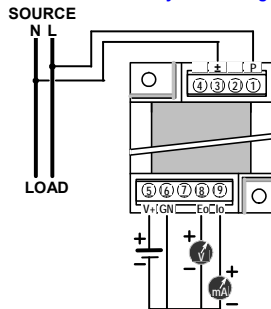
2W(Q)-34 (Watt or Var Transducer)
25A & 500V max directly measuring



2AV-12 Current & Voltage Transducer
25A & 500V max directly measuring

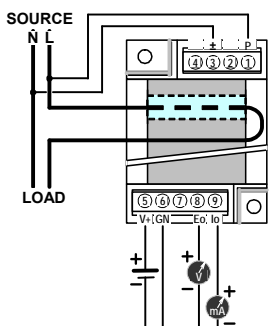


2F-12 Frequency Transducer
500V max directly measuring

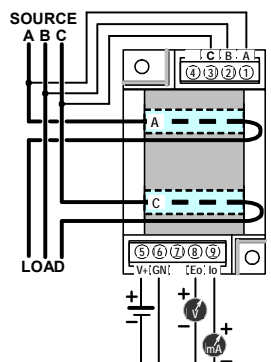


* There are two mA or Voltage outputs.

2W(Q)-12 Watt or Var Transducer
25A & 500V max directly measuring



2W(Q)-33 Watt or Var Transducer
25A & 500V max directly measuring



ORDERING INFORMATION

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

CODE	INPUT TYPE
A	Current
V	Voltage
AV	Current & Voltage
F	Frequency
W	Watt
Q	Var

CODE	CONNECTION
12	1P2W Unbalanced Load
33	3P3W Unbalanced Load
34	3P4W Unbalanced Load
DC	DC (Current / Voltage)

CODE	INPUT RANGE
A1	0 - 1 A*
A5	0 - 5 A
A6	0 - 25 A
A7	0 - 50 A*
AB	0 - 100 A*
AC	0 - 200 A*
AD	0 - 300 A*
V5	0 - 500 V _{eff}
F6	0 - 100 Hz

* The maximum current measuring in 3P3W type is 25A.
* Model 2A-12 & 2A-DC only

CODE	INPUT RANGE
A1	0 - 1 A
A5	0 - 5 A
A6	0 - 25 A
V1	110V _{eff} or 120 V
V2	220V or 240V
V3	380V or 415V
V4	110V _{eff} - 63.5V _{eff} or 120V _{eff} - 69.3V _{eff}
V5	190V _{eff} - 110V _{eff} or 208V _{eff} - 120V _{eff}
V6	380V _{eff} - 220V _{eff} or 416V _{eff} - 240V _{eff}

*V4, V5, V6 will be selected in 3P4W connection.

CODE	INPUT FREQ.
5	50Hz ±3Hz
6	60Hz ±3Hz
F	Specify(Hz i/p)
N	DC

CODE	OUTPUT RANGE
A4	0 - 20 mA
A5	4 - 20 mA
V2	0 - 5 V
V3	0 - 10 V

* Loop-powered units can be used for 4~20mA only.

CODE	AUX. POWER
D1	DC 12 V
D2	DC 24 V
LP	Loop powered*

* 2A-12 and 2V-12 only

Available Models
For AC Current / Voltage / Frequency, 1P2W, 3P3W
For AC Watt / Var, 1P2W, 3P3W, 3P4W
For DC Current / Voltage

There is no isolation between auxiliary power and output. This means ensuring that power supplies are noise free.