

TRANSDUCER & CT for A / V / HZ / W / VAR & DC

2 SERIES

► FEATURES

- Transducer and CT combined for measuring AC Current , Voltage, Watts, Vars and Frequency, and DC Current / Voltage
- 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:

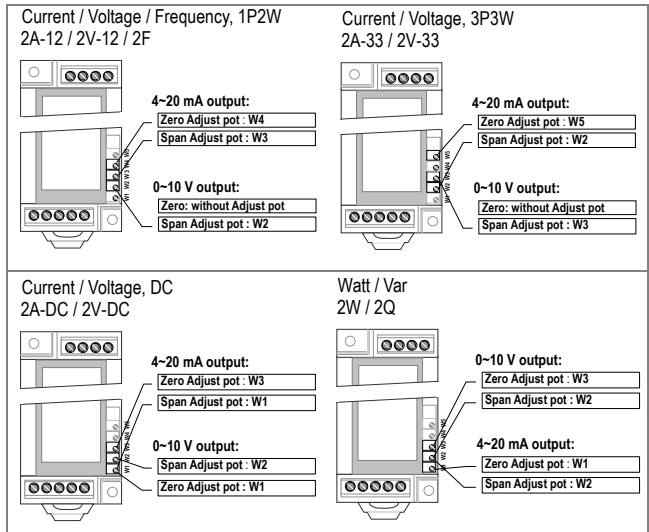
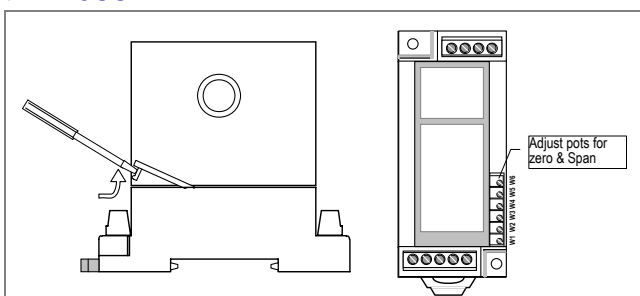
	Input Range	Input Frequency	Accuracy
DC Current	0 ~ 300 A	DC	≤ ±1.0% F.S.
Current	0 ~ 0.5 A (~300 A)	50 Hz ± 3 Hz	
Voltage	0 ~ 500 V	60 Hz ± 3 Hz	
Frequency	0 ~ 100 Hz		
Watt	0 ~ 5 A (~ 25 A) 0 ~ 500 V	50 Hz ± 3 Hz 60 Hz ± 3 Hz	
Var	0 ~ 5 A (~ 25 A) 0 ~ 500 V _{eff}	50 Hz ± 1 Hz	≤ ±0.5% F.S.
		60 Hz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

OUTPUT:

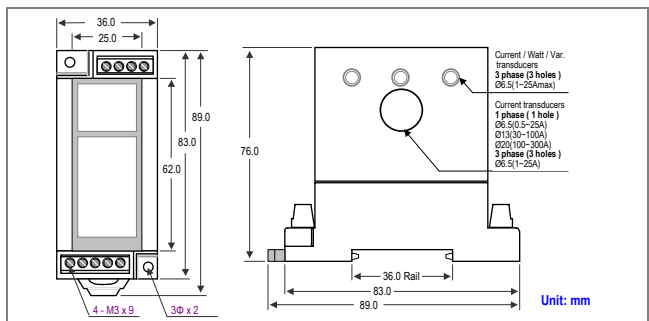
Output Range	Output Ripple	Load Resistance
0 ~ 10 V	≤ 10 mV	≥ 2K ohm
4 ~ 20 mA		≤ 250 ohm
4 ~ 20 mA (Loop Powered)		Vs / (20 mA) - 900 ohm

- 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 & Frequency
≤ 900 msec. For Watt & Var
≤ ±10% of F.S.
- 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%
- Power effect:** Frequency: DC 12V, 24V ±10%
Watt / Var: DC 12V ±10%
- Power consumption:** ≤ 0.05% F.S.
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
- Isolation:** ≥ 100M ohm, DC 500V
- Enclosure:** IEC 529 (IP50)
- Mounting:** 35 mm DIN rail (EN 50022)
- Weight:** Under 220 g

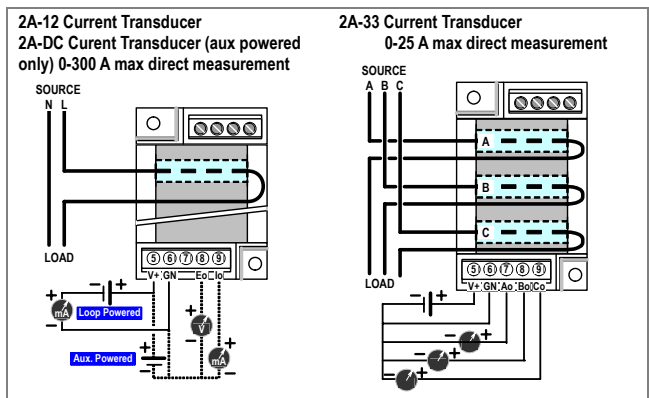
► ADJUSTMENT



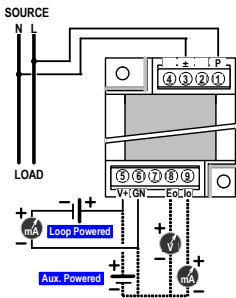
► DIMENSIONS



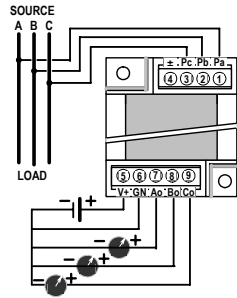
► CONNECTION



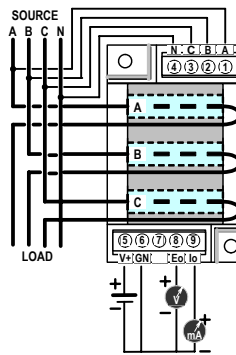
2V-12 Voltage Transducer
500V max direct measurement



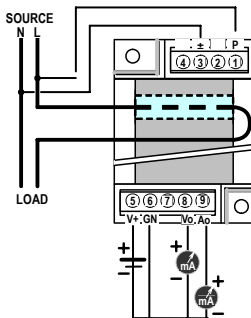
2V-33 Voltage Transducer
500V max direct measurement



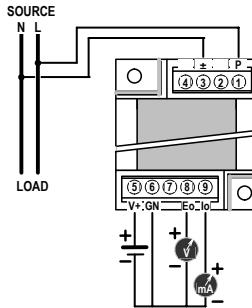
2W(Q)-34 (Watt or Var Transducer)
25A & 500V max direct measurement



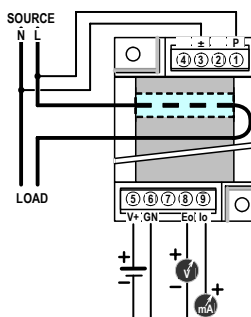
2AV-12 Current & Voltage Transducer
25A & 500V max direct measurement



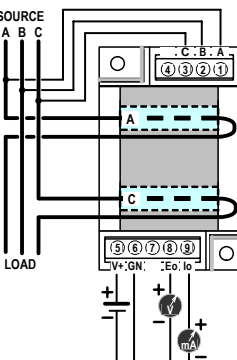
2F-12 Frequency Transducer
500V max direct measurement



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



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



*2AV-12 has two mA or Voltage outputs

*note that for this series there is no isolation between auxiliary power and output
Isolation is input to output only. This means ensuring that power supplies are noise free

ORDER 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 _{LL}
F6	0 ~ 100 Hz
For Watt/Var only	
V1	115 V
V2	230 V
V3	415 V

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

*V4, V5, V6 to 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

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

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

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

* The maximum current in 3P3W type is 25A.