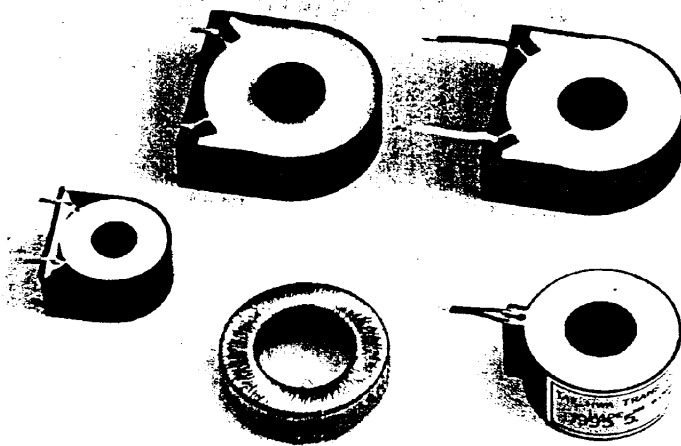


Current Transformer (State-of-the-Art Accuracy)

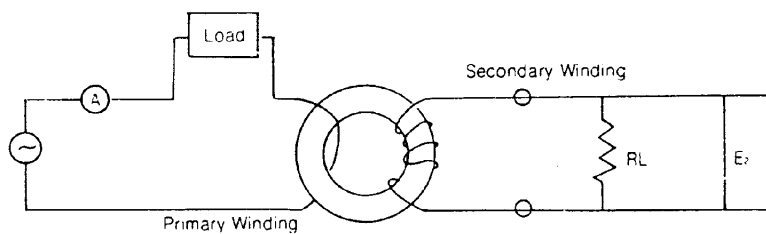
□ Application

- Electronic Energy Meter (Watt hour, Electricity)
- Electricity Dispensor
- Field Calibrators
- Transducer



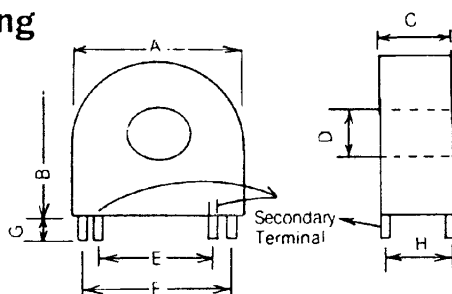
- Feature
 - State-of-the Art Current Measurement
 - Paramount Accuracy of Ratio & Phase Shift
 - Supreme Reliability
 - A Variety of Current Ratio available to each Model
 - Diverse availability to customers design
 - Excellent thermal characteristics
 - Easy to install (Mount)

• Circuitry



Model TZ-77 & TZ-76

Drawing



(unit : mm)

Model	A	B	C	D	E	F	G	H
TZ-77	MAX 23.5	MAX 25	MAX 11	MIN 6.9	±0.3 15.24	±0.3 19.05	±1 3	±0.3 9.5
TZ-76	MAX 37.5	MAX 39	MAX 14	MIN 12.8	±0.3 25.4	±0.3 33.02	±1 3	±0.3 12.7

(Secondary Terminal can be replaced by Lead wire)

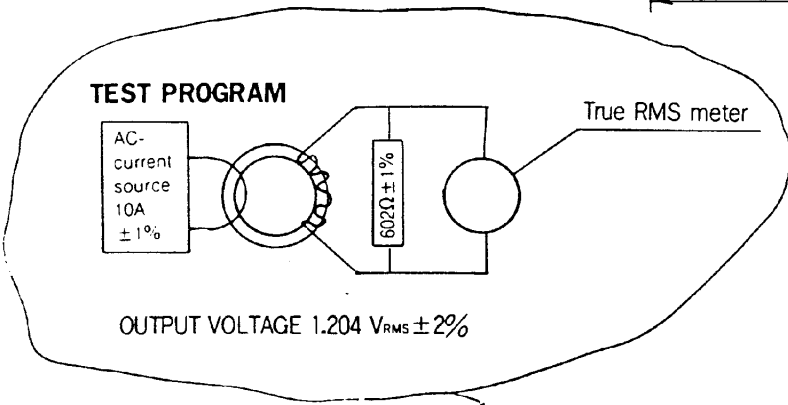
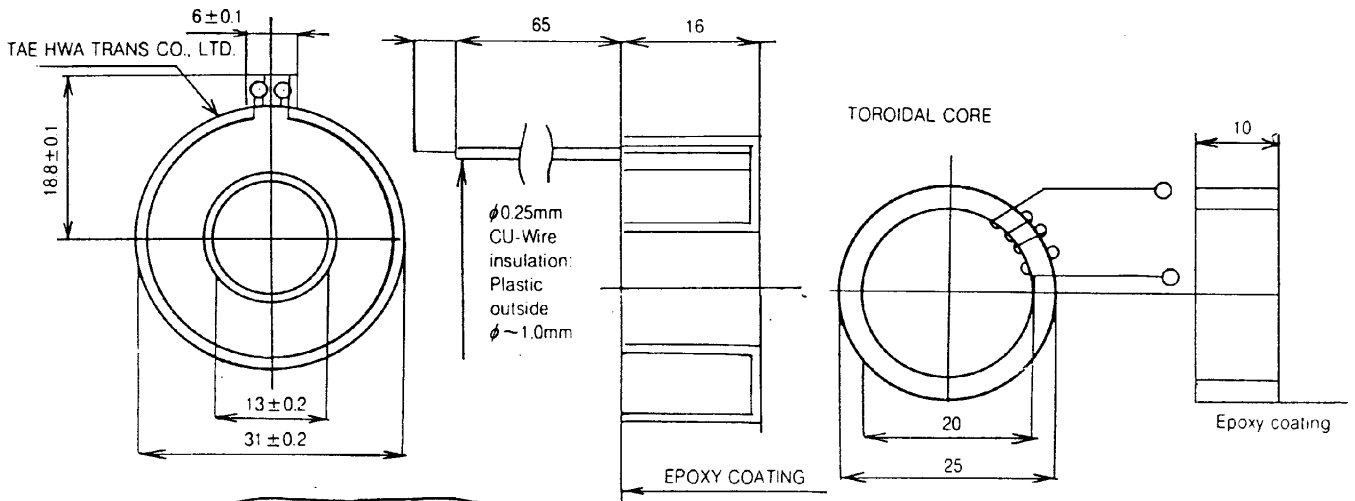
Current Transformer I (State-of-the-Art Accuracy)

Electrical Characteristics

Model	Frequency	Current Ratio	Tolerance Characteristics				Hi-Potential Voltage
			Test Amp	Sec. Amp(mA)	Ratio Error	Phase Shift	
TZ-77	50Hz/60Hz	5A/2mA(No Load)	$I_1=0.25$	$I_2=0.1$	$\pm 0.2\%$	7 ± 5 Min	Pin Terminal CT A B Case A-B AC2500V(1 Min.)
TZ-76		60A/24mA	$I_1=3$ $I_1=60$	$I_2=1.2$ $I_2=24$	$\pm 0.2\%$	4 ± 5 Min 0 ± 5 Min	

Model TZ-31

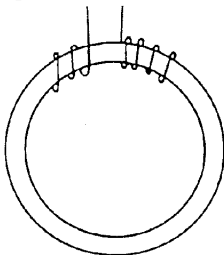
Mechanical Outline & Standard Size



Core Size $25 \times 20 \times 10\text{mm}$
 Strip Thickness $0.1 - 0.2\text{mm}$
 Number of Turns: 5000T/S
 with 0.1mm cu-wire
 Core Case Material: Plastic
 Insulating Filling: Epoxy Resin
 Temp. Range: $-30 + 75$ Centigrade

Model TZ-87

Drawing



Coiling Dimension		
Outer Diameter	Inner Diameter	Height
36.5mm	17.8mm	11.6mm
Core Dimension		
Outer Diameter	Inner Diameter	Height
30.5mm	23mm	6.5mm
Coiling Circumference		
Single Layer of Tape to Periphery To Secure leads		

Number of Turns: 4,000T/S
 Rated Current: 20Amp to 50Amp

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THE TECHNICAL DATA OF CURRENT TRANSFORMER TZ-77

1. TEST CONDITIONS
- PARSE ANGLE & RATIO ERROR

PRIMARY CURRENT (Amp)	FREQUENCY (Hz)	LOAD
0.25, 3, 5, 30	50/60	NO LOAD

2. PHASE SHIFT & RATIO ERROR

F= 50Hz NO LOAD

SAMPLE NO	NO.1		NO.2		NO.3	
	P.S. (min.)	R.E. (%)	P.S. (min.)	R.E. (%)	P.S. (min.)	R.E. (%)
0.25	9.2	-0.02	9.8	-0.02	8.2	-0.01
3	7.1	-0.04	6.8	-0.04	6.6	-0.03
5	6.7	-0.04	6.6	-0.04	6.5	-0.03
30	4.3	-0.04	4.2	-0.04	4.3	-0.04

F= 60Hz NO LOAD

SAMPLE NO	NO.1		NO.2		NO.3	
	P.S. (min.)	R.E. (%)	P.S. (min.)	R.E. (%)	P.S. (min.)	R.E. (%)
0.25	8.3	-0.01	8.2	-0.01	8.2	0
3	6.2	-0.02	6.1	-0.02	6.6	-0.02
5	5.0	-0.03	5.1	-0.03	6.5	-0.03
30	2.6	-0.03	2.5	-0.03	4.3	-0.03

Phase Shift & Ratio Error on Temperature

I (Primary Current) = 5Amp.

F = 50Hz No Load

Sample No.	NO. 1		NO. 2		NO. 3	
	P. S. (min)	R. E. (%)	P. S. (min)	R. E. (%)	P. S. (min)	R. E. (%)
-20C	3.7	0.03	3.0	0.03	3.7	0.03
-10C	6.0	0.01	5.6	0.01	5.7	0.01
25C	6.9	-0.01	6.7	-0.01	6.6	0
60C	7.6	-0.02	7.4	-0.02	7.6	-0.01
80C	7.9	-0.03	7.7	-0.04	7.6	-0.01

I (Primary Current) = 5Amp.

F = 60Hz No Load

Sample No.	NO. 1		NO. 2		NO. 3	
	P. S. (min)	R. E. (%)	P. S. (min)	R. E. (%)	P. S. (min)	R. E. (%)
-20C	2.5	0.04	2.4	0.04	2.6	0.05
-10C	4.4	0.02	4.3	0.02	4.1	0.02
25C	5.0	0	5.1	0	4.8	0.02
60C	5.6	0	5.5	-0.01	5.5	0.01
80C	5.7	-0.01	5.5	-0.01	5.7	0

Overload Specification of T2-77

4 (four) times overload continuously & 60 (sixty) times overload for 1 second

