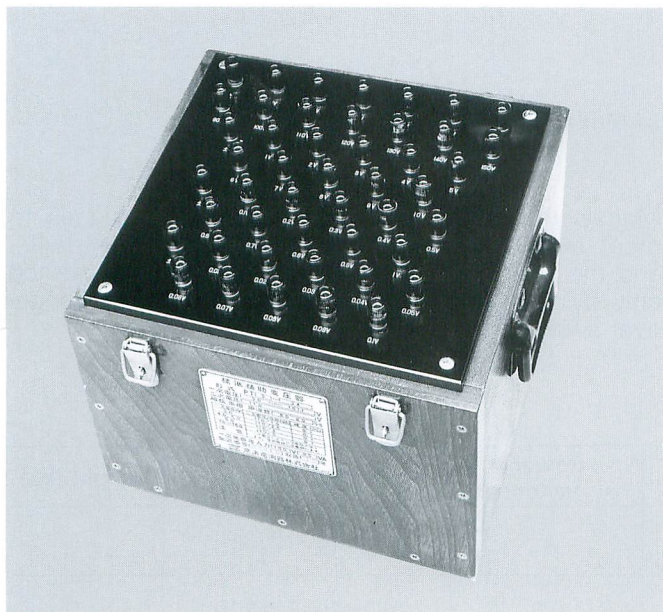
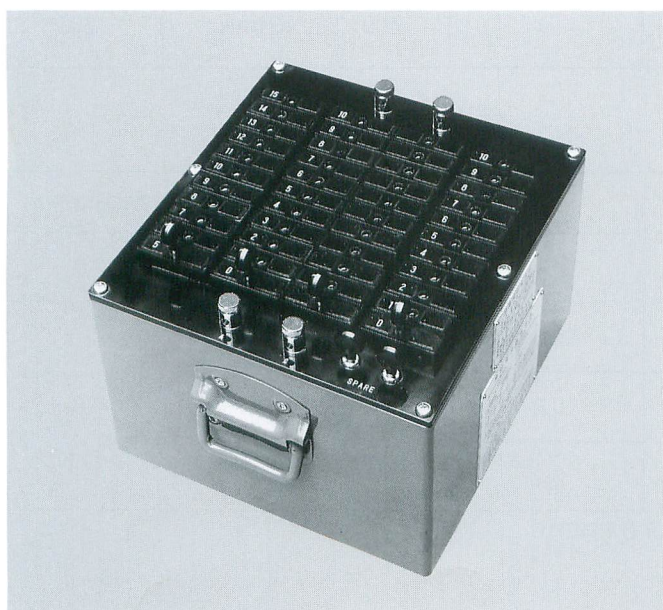


Auxiliary Instrument Transformer

In comparison test of instrument transformer, the nominal ratio of the standard transformer to a transformer under test must be same. In case of that the nominal ratio is different, Auxiliary Instrument Transformer model PTS-34 or CTS-211 is used in combination with the standard transformer to compensate the difference of ratio.



Model PTS-34
250×250×245(H) mm, 11 kg



Model CTS-211
270×295×223(H) mm, 11 kg

Model PTS-34 for potential transformer test

One autotransformer with four separate windings No. 1, No.2, No.3 and No.4 is incorporated. Each coil winding covers the following range.

- No.1 0–150 V in 10 V steps
- No.2 0– 10 V in 1 V steps
- No.3 0– 1 V in 0.1 V steps
- No.4 0– 0.1 V in 0.01 V steps

So the autotransformer can cover the voltage in the range from 0 to 161.1 V with 0.01 V step.

When the nominal ratio is different each other, Model PTS-34 is connected at the secondary of the standard potential transformer, and it makes both voltages of standard transformer and transformer under test same in nominal by selecting the suitable voltages on Auxiliary Instrument Transformer.

Rating of model PTS-34

Voltage	Max. 161.1 V in 0.01 V step
Burden*	less than 6 VA
Accuracy	0.1 class
Frequency	50/60 Hz

* Total burden of PTS-34 for standard transformer

Model CTS-211 for current transformer test

In case of testing current transformer with different ratio from standard transformer by comparison method, a difference of ratio is compensated by using Auxiliary Transformer model CTS-211 connected at the 2 ry. of standard transformer.

Where Ratio of Std. Trf. ; R_s
Ratio of Trf. under test ; R_x

Rate (ρ) of ratio is $\rho = \frac{R_s}{R_x}$.

When inserting the plugs on CTS-211 to the suitable positions according to the above value of (ρ), comparison test can be made.

Rating of model CTS-211 (Only for 5A rating)

Range of (ρ)	0.5–1.61	Burden	less than 10 VA
Primary current	Max. 5 A	Accuracy	0.1 class
Secondary current	Max. 10 A	Frequency	50/60 Hz

If the test certificate by authorized test organization is necessary, models PTS-34 and CTS-211 will be supplied with it by request at surcharge.