SOKEN

TURN RATIO TESTER DAC-RT-6

DAC-RT-6 is designed to measure winding turns ratio between primary and secondary winding of a power transformer and an instrument transformer, preciously.

Built-in amplifier power source realizes stable measurement without interference by harmonic current in power-line.

Further, a preliminary measurement (for 2 sec.) is given before the main measurement to secure safety. In case of detecting wrong connection between primary and secondary windings, or any miss setup of turn ratio etc, the tester stops measurement with alarm sound.

Moreover, to pursue usability for users, max 10 sample (Turns ratio: 5 points for every sample) can be registered in an internal memory.

DAC-RT-6 is an ideal tester for safe, accurate, and efficient measurement of winding turns ratio.

Specimens

Power Transformers, Instrument Transformers

Features

- Preliminary measurement function to secure safety.
 (Stop measurement with alarm sound at any abnormal condition)
- Built-in amplifier power source prevents interference from harmonic current in Power-line.
- Max 10 types of turns ratio can be registered, and 5 different ratio settings are available for every type. (totally 50 settings)
- Durable, compact, and light weight.
- Simple operation with LCD screen.

Specification

Measuring Voltage	AC100V (20VA)
Turns Ratio Range	0.8:1 to 1:1500

Ratio Error Rate Range and Accuracy

Range	Display	Accuracy
+/- 2%	0 - +/-2.00%	+/-0.05%+/- 2 digits
+/- 20%	0 - +/-20.0%	+/-0.1%+/- 2 digits

Setting Range

HV(N1): 0.001 – 99999 LV(N2): 0.1 – 9999

Input Power Interface Size and Weight Accessory AC100V-240V, 50/60Hz RS232C W270xH180xD260mm Approx. 5kg Measuring Cable (H.V/L.V) (5M) AC Cord (1.5M), Grounding Cable (3M)



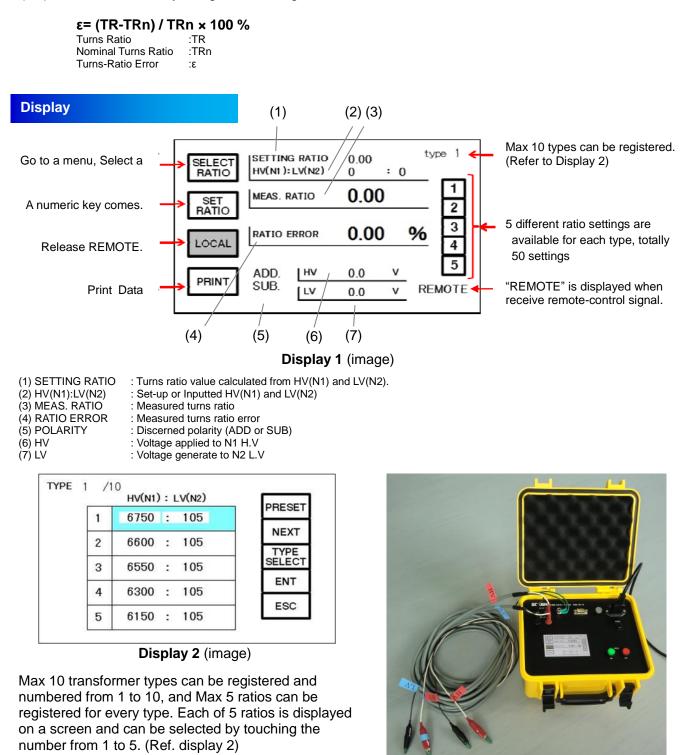
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Principal

The tester applies voltage (100V) to HV side of a transformer under test. Then, it detects generated voltage at LV side, and measures turns ratio error by comparing with nominal turns ratio value. Polarity (ADD or SUB) is discerned from phase differences between HV side and LV side. Also, true turns ratio value is calculated from the measured ratio error, and displayed.

Winding turns ratio error means how much real turns ratio (TRn) is different from nominal turns ratio (TR), and is calculated by using the following formula.





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