

Automatic Transformer Test System SM6030



Features

- 20Hz–200kHz Frequency, total 15025 points
- Built in 0.50mA / 0–5V Bias power supply
- Alternating DCR test signal
- Adapt to SMA1831 Transformer Scanning Test Fixture
- 4.3" TFT LCD display with 272x480 resolution
- Save test data or image in USB memory in CSV, GIF format
- 100 sets of setting files can be saved inside the instrument and the U disk setting file can be saved.
- RS232, USB DEVICE and other interface support host computer communication.

Technical specifications		SM6030A	SM6030B
Description		LCR + Transformer Test System	Transformer Test System
Transformer Test Parameters		Turn ratio, Turns Phase, L, C, Lk, Q, ACR, DCR, Balance Pin Short	
Basic Measurement accuracy	LCRZ	0.1%	
	DCR, TR	0.5%	
Test Signal Frequency		20Hz – 200kHz Total Points : 15025	
Signal source output (impedance)		30Ω, 100Ω (Optional)	
AC test signal level	Normal	10mV–2Vrms, Minimum resolution : 10mV, Accuracy : 10% of Setting voltage + 2mV	
		100μA–20mArms, Minimum resolution : 0.1mA	
	Constant level	20mV–1Vrms, Minimum resolution : 10mV, Accuracy : 10% of Setting voltage + 2mV	
		200μA–10mArms, Minimum resolution : 0.1mA	
DC Bias Voltage Source		0V – ±5V, Minimum resolution : 0.5mV, Accuracy : 1% of Setting Voltage + 5mV 0mA – ±50mA, Minimum resolution : 0.5μA	
LCR digital bridge test parameters		Z , Y , C, L, X, B, R, G, D, Q, θ, DCR	
DCR Display Range		0.00001Ω – 999.999MΩ	
TR Display Range		1 : 0.01 – 100:1	
LCR Parameters Display Range	Z , R, X	0.00001Ω – 99.9999MΩ	
	Y , G, B	0.00001μS – 99.9999S	
	C	0.00001pF – 9.99999F	
	L	0.00001μH – 99.9999kH	
	D	0.00001 – 9.99999	
	Q	0.00001 – 99999.9	
	θ (DEG)	–179.999° – 179.999°	
	θ (RAD)	–3.14159 – 3.14159	
Δ %		–999.999% – 999.999%	

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Test Time ($\geq 10\text{kHz}$)	Fast : 25 times/s (40ms), Medium Speed : 8 times/s(125ms), Slow : 2.7 times/s (370ms)	
Equivalent Circuit	Series Parallel	
Range Mode	Auto, Manual	
Trigger Mode	Internal, Manual, External, Bus	
Averaging	1 – 255	
Clear Function	Open circuit, Short circuit, Load	
Computation	Absolute reading, Δ ABS, Δ %	
Trigger delay time setting	0–60.000s, 1ms step	
Step delay time setting	0–60.000s, 1ms step	
Comparator function	10 files sorting, BIN1–BIN9, NG, AUX	
	File counting function	
	PASS, FAIL front panel or scanning fixture LED display	
Memory	100 sets of LCRZ instruments set file memory	
	100 sets of transformer scan setting file memory	
Technical Specifications : SMA1831 Transformer Scanning Test Fixture		
Scan test output pin	24 pin	
24 Pin scan output distributed capacitance	20pF	
Transformer locking method	SMA1831-01 : Manual (Standard), SMA1831-02 : Pneumatic (Optional)	
Panel test control	START, RESET key, PASS/FAIL LED indication	
Handler interface (Output from scan fixture) input / output signal	Power : +5V, GND Input : START, RESET Output : PASS, FAIL on/off signal TTL Level	
External start input	Foot switch	
Solenoid Valve working power output	+24V	
Dimensions & Weight	228mm (W) x 203mm (D) x 53mm (H) , 2.9kg	
General Specifications		
Display	4.3" TFT LCD display with 272 x 480 resolution	
Operating Condition	0°C–40°C, $\leq 90\%$ RH	
Mains Voltage	230V $\pm 10\%$, 50/60Hz	
Power Consumption	< 80VA	
Interface	USB Device, USB Host, RS232C, Handler or Scanner, RS485 (Option), GPIB (option)	
Dimensions & Weight	235mm (W) x 360mm (D) x 105mm (H) , 3.6kg	
Standard Accessories	Transformer Auto Scan Test Fixture with Manual locking, 4 Terminal Kelvin Test Fixture, Scanner Cable, Foot Switch, CD, Mains Cord	

Subject to change



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Scientific Mes-Technik Pvt. Ltd.

B-14, Pologround, Industrial Estate, Indore 452 015, India

☎ 0731-2422330/31/32/33 📠 0731-2422334, 2561641 ✉ sales@scientificindia.com 🌐 www.scientificindia.com



Bengaluru 080-23452635
Chennai 044-42054180
Gujarat +917567463752
Hyderabad +917095228811

✉ bangalore@scientificindia.com
✉ chennai@scientificindia.com
✉ gujarat@scientificindia.com
✉ hyderabad@scientificindia.com

Kolkata 033-22282223-6
Mumbai +919850901735
New Delhi +919977994909
Pune +919850901735

✉ kolkata@scientificindia.com
✉ mumbai@scientificindia.com
✉ ndelhi@scientificindia.com
✉ pune@scientificindia.com