

# Transformer, Motor and Winding Test Instruments

## B. TH2829X Series Automatic Transformer Test System



### Features

- 7-inch TFT LCD display with a resolution of 800×RGB×480
- Frequency up to 1MHz, resolution: 0.5mHz
- Signal level: 5mV-2Vrms, optional (2Vrms-10Vrms)
- Built-in 0-100mA/0-10V bias power supply, optional 1A/2A bias current source
- Up to 75 times / sec test speed
- Diode forward and reverse characteristic detection
- Improved high turns ratio and weakly coupled transformer test capability
- Improved DCR testing capabilities
- Single screen can accommodate all scan test results
- Time stamping system: memory file setting, calibration deviation and deduction time
- Sort the selected scanning parameters
- Self-test scanning fixture relays
- Flexible deviation deduction method
- Multiple handling ways for FAIL cases
- Single parameter test cycle to test independent windings
- Increased security: administrator and operator passwords
- Built-in statistical analysis capabilities: Cpk, Cp, Ck, etc.
- Bar-code reading function can be used to select a setting file or to manage the type of test products
- Optional PC-level instrument test setup file programming capability
- Online upgrade mode: USBHOST or RS232
- Support multiple instrument networking through LAN interface
- Backward compatible with TH2818X/TH2819X parameter setting file
- Storage: Internal: 100 groups of settings file to save  
U disk: 500 groups of configuration files, CSV format test data, GIF format images



### TH2829X Series

Standard	RS232 <input checked="" type="checkbox"/>	USB HOST <input checked="" type="checkbox"/>	USB DEVICE <input checked="" type="checkbox"/>	LAN <input checked="" type="checkbox"/>	SCANNER <input checked="" type="checkbox"/>
option	GPIB <input type="checkbox"/>	RS485 <input type="checkbox"/>	HANDLER <input type="checkbox"/>		

Dimension(mm): 400mm(W)x132mm(H)x385mm(D)

Weight: 13kg

### Applications

- Switching transformer scanning test, comprehensive characteristics analysis.
- Network transformer scanning test, comprehensive characteristics analysis
- Discrete passive components (L, R, C) multi-channel scanning test
- Relay drive line package, contact resistance multi-channel scanning test
- Multi-channel DC resistance DCR scanning test
- Comprehensive test analysis of multiple passive components in impedance network

### Specifications

Model	TH2829 LX	TH2829 AX	TH2829 AX-24	TH2829 AX-48	TH2829NX	TH2829CX						
Test Pin(PIN)	20	20	24	48	72/96/120/144/168/192	20						
Test frequency	20Hz — 200kHz					20Hz — 1MHz						
Display	800×RGB×480 7 inch TFT LCD display											
LCR Function	option											
Transformer test parameters	Turn Ratio	Turns	Phase	L	C	Lk	Q	ACR	DCR	Balance	Pin Short	Diode P/N
LCR test parameters	Z ,  Y , C, L, X, B, R, G, D, Q, $\theta$ , DCR, Turn-Ratio, Phase, Lk											
Basic test accuracy	LCRZ		0.05%									
	DCR, Turn Ratio		0.1%									
Signal source output impedance	10 $\Omega$ , 30 $\Omega$ , 50 $\Omega$ , 100 $\Omega$											
Test speed (ms/times)	13ms, 90 ms, 370 ms											
AC signal level	5mVrms — 2Vrms(transformer test, can be customized to 10Vrms), 5mVrms — 10Vrms(LCR function); 50 $\mu$ Arms — 100mArms											
DC bias voltage source	-----	0V — $\pm$ 10V; 0mA — $\pm$ 100mA										
DC bias current source	0 — $\pm$ 1A option(option TH2901) / 0 — $\pm$ 2A option(option TH2902)											
DC constant current source	0mA — $\pm$ 120mA for diode forward characteristic test											
Diode test	forward test voltage		0 — 9.9999 V									
	Reverse test current		0 — 99.999 mA									
Comparator	10 bins, PASS/FAIL indication, file counting function											
Storage	Internal: 100 sets of configuration file; U disk: 500 sets of configuration files, CSV format test data, GIF format images											

### Standard Accessories

Three core power cord

TH26016 Handler/Scanner standard 36P control cable (TH2829LX/AX/BX/CX only)

TH26011AS four-terminal Kelvin test cable (TH2829LX/AX/AX-24/AX-48/NX only)

TH26011BS four-terminal Kelvin test cable(TH2829CX/CX-24/CX-48 only)

TH26004B two-terminal test cable

TH1901B manual transformer scanning test fixture

TH1801-001 Foot Start Switch (except TH2829AX-24/AX-48)

TH2829AX-001 Foot Start Switch (TH2829AX-24/AX-48 only)