

Transformer Tester ST2829CX

- Frequencies: 20Hz - 1MHz
- Basic Accuracy: 0.05%
- 800x480 LCD-color-display
- Measuring Speed: 13ms
- Interfaces: LAN, USB, RS232, Handler, DCI, (GPIB option)
- LCR option
- Inclusive ST1901A pneumatic transformer test fixture

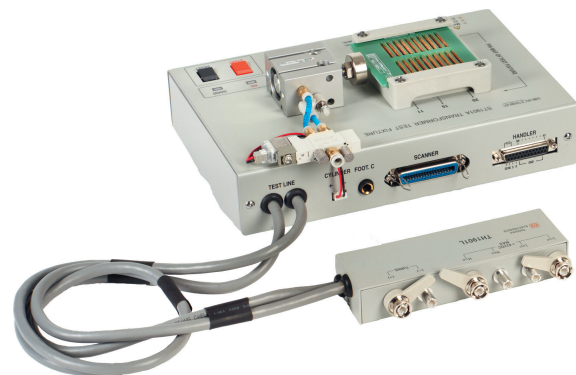


Specifications

- 7-inch 16:9 TFT LCD display with a resolution of 800x480
- Up to 1MHz test frequency, 0.5mHz resolution
- Signal amplitude range: 5mV to 10Vrms, 100µV resolution
- Test speed is up to 75measures/sec
- Built-in 0-100mA/0-10V bias source (standard) or 1A bias source (optional)
- Diode P/N characteristic detection can test all parameters of network transformer
- Improved high turn ratio and weak coupling transformer test ability
- Improved DCR test ability for low-ohm winding
- Flexible time-labeling system: time of file setting, calibration and deduction can be saved
- Sort the selected scanning parameters
- Flexible deviation and deduction modes
- Multiple handling ways for FAIL cases
- Single parameter test cycle can be used to test a separate winding
- Internal memory for up to 200 settings files and external USB memory for more
- Test data and graphs can be saved as CSV, GIF format to USB memory
- The built-in software provides analysis abilities, such as Cpk, Cp and Ck
- Bar-code reading function can be used to select a settings file or to manage the type of test products
- Parameter settings files are compatible with ST2818X/ST2819X
- Program settings files with your local PC
- Upgrade operation software by USB HOST and RS232C online
- Multiple interfaces are optional for PC communication
- Network multiple testers through LAN interface

What's in the box

- ST1901A Pneumatic transformer test fixture
- ST26005B 4-terminal test fixture
- ST26011A 4-terminal Kelvin test clip leads
- ST26004B 2-terminal test clip leads
- ST26016 Transformer scanning control cable
- ST1901-001 Foot switch
- ST26010 Gold-plated bypass board
- ST1901B Manual transformer scanning fixture



Options

- ST26001A 4 terminal test adapter
- ST26006 Axial component test fixture
- ST26007A Inductor core test fixture
- ST26008A SMD test fixture
- ST26009A SMD low-Ω test tweezers
- ST26009B SMD test tweezers
- ST26009C SMD 4 terminal tweezer
- ST1901A Pneumatic transformer test fixture
- ST1901B Manual transformer test fixture
- ST2901 1A DC bias board
- ST10202 Handler/scanner interface board
- ISO 9001 Test Certificate LCR Meter
- ST2829X LCR test function



Technical Specifications			
Display	800xRGBx480 7" TFT LCD Display		
Frequency of test signal	ST2829AX	20Hz - 300kHz	
	ST2829BX	20Hz - 500kHz	
	ST2829CX	20Hz - 1MHz	
	Min. resolution	0.5mHz	
	Accuracy	0.01%	
Model	ST2829AX	20-Pin Transformer Scanning Test + LCR Test ST2829X (Optional) ST2829X provides a 10-hour function-experience for the optional LCR test. The evaluation version will be automatically turned off after 10 hours of usage. If you do need this function, please contact our sales team and provide your detailed instrument serial number.	
	ST2829BX		
	ST2829CX		
Level of AC test signal	Normal level	5mV - 10V _{RMS}	Min. resolution 100μV, accuracy: 10% × preset voltage + 2mV
		50μA - 100mA _{RMS}	Min. resolution 1μA, accuracy: 10% × preset value + 10μA _{RMS}
	Constant level	10mV - 5V _{RMS}	Min. resolution 100μV, accuracy: 6% × preset voltage + 2mV
		100μA - 50mA _{RMS}	Min. resolution 1μA, accuracy: 6% × preset value + 10μA _{RMS}
DC bias voltage source	0V - ± 10V		Min. resolution: 0.5mV, accuracy: 1% × preset voltage + 5mV
	0mA - ± 100mA		Min. resolution: 0.5μA
Output impedance of signal source		10Ω, 30Ω, 50Ω, 100Ω (selectable), ±1% @1kHz	
DC constant current source (optional) (for diode P/N characteristic test)	0 - ±120mA	Min. resolution: 0.5mV, accuracy: 1% × preset voltage + 5mV	
DC bias current source (optional, ST2901)	0 - ±1A	Min. resolution: 0.5mA, accuracy: 1%× preset value+2mA Load open voltage: = 9V	
LCR test parameters		Z , Y , C, L, X, B, R, G, D, Q, θ, DCR, Turn-Ratio, Phase, Lk	
Display range of DCR		0.00001Ω - 999.999MΩ	
Display range of turn ratio		1:0.001 - 1000:1	
Transformer test parameters		Turn Ratio, Turns, Phase, L, C, Lk, Q, ACR, DCR, Balance, Pin Short, Diode P/N	
Basic accuracy (See operation manual)	LCRZ	0.05%	
	DCR, Turn ratio	0.1%	
	Calibration	Warm-up time = 30 minutes, Environment temperature: 23±5°C, Signal voltage: 0.3V _{RMS} - 1V _{RMS} , Zeroing: After OPEN or SHORT, Length of test cable: 0 m	
Measurement speed (≥10 kHz)		Fast: 75 meas/sec (13ms), Medium: 11 meas/sec (90ms), Slow: 2.7 meas/sec (370ms)	
Display range of LCR parameters	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 - 99999.9	
	Q	0.00001 - 9.99999	
	θ(DEG)	-179.999° - 179.999°	
	θ(RAD)	-3.14159 - 3.14159	
Diode test	Positive voltage	0 - 9.9999V	
	Negative current	0 - 99.999mA	
Equivalent circuit		Serial, Parallel	

Range Mode	Auto, Hold	
Trigger mode	Internal, Manual, External, Bus	
Average times	1-255	
Calibration function	Open, Short, Load	
Math operation	Direct reading, ΔABS, Δ%	
Delay time	0 - 60.000s, 1ms resolution	
Comparator	10-bin sorting, BIN1-BIN9, NG, AUX	
	Bin counter	
	PASS/FAIL on front panel, LED indication on scanning fixture	
Internal memory	200 sets of LCRZ setting files 200 sets of setting files for transformer scanning 10 sets of GIF files	
Interface	Control interface	HANDLER (optional) on rear panel SCANNER (compatible with ST1901A/B, ST1805A/B transformer scanning fixtures)
	Communication interface	LAN, GPIB (optional), USB Host, RS232C
	Memory interface	USB Host (USB memory or barcode scanning)
General Specifications		
Operating environment	Temperature	0°C - 40°C
	Humidity	≤ 90% RH
Power supply	Voltage	99V - 121V AC, 198V - 242V AC
	Frequency	47Hz - 63Hz
Power consumption	Max. 80VA	
Dimension (WxHxD)	430mm x 185mm x 473mm	
Weight	Approx. 13 kg	