



ONSys Technologies



Overview

- Four-parameter display, arbitrary parameter combination, up to 12 kinds of measurement parameters.
- 7 inch 16: 9 TFT LCD display, resolution: 800×480 RGB
- Basic measurement accuracy is 0.05%, the maximum test speed can reach 200 times/Sec.

- Test frequency range: 20Hz—5MHz, resolution is 10 mHz.
- Automatic level control ALC function for testing voltage or current.
- Four different signal sources output impedance such as 30 Ω, 100 Ω, 50Ω,10 /CC
- Built-in comparator, 10 file sorting and file counting function
- Graphical scanning analysis function supports frequency/ level/offset scan, which can help you dissect the device performance easily.
- 10 points list scan function.
- Internal -5V~+5V DC bias voltage source.
- 2m/4m test cable expansion (optional accessories)
- Optional ±10V (±100mA) 及 1A internal DC bias source.
- Internal 100 setting files for storage or call, 500 groups of testing files of U disk are expanded to save or call.
- Software version of the instrument can be upgraded and updated by USB HOST.
- U disk can support file systems with FAT16, FAT32 format.
- Standard RS232C, HANDLER, USB HOST, headphone interface, optional GPIB, LAN interface.
- High-frequency precision bridge is a multifunctional component tester for testing all kinds of electronic components. The most popular 7-inch 800x480 color TFT LCD display is adopted, it is more intuitive and more comfortable for users to read test results. It is an impedance meter with high speed, wide test range and 6-bit test resolution.

Brief Introduction

The instrument can meet the requirements of production line quality assurance, purchase inspection and laboratory measurement. The main test products include microphones, resonators, inductor, ceramic capacitors, liquid crystal displays, varactor diodes, transformers, etc.

Interfaces such as Handler, RS232C, USB, GPIB and perfect command system provided by the instrument can help users easily set up a test system

Ordering Information

ONS2877/76 Precision LCR digital bridge

UC2877/UC2876 High Frequency LCR Digital Bridge

Technical Specifications

Measurement function		
Test frequency	ONS2877 20 Hz- 2MHz, 10mHz resolution ONS2876 20Hz - 5MHz, 10mHz resolution	
Test parameters	Z , Y , C, L, X, B, R, G, D, Q, θ , DCR	
Basic measurement accuracy	0.05%	
Equivalent Circuit	Series, parallel	
Math function	absolute deviation, percentage deviation	
Range method	automatic, hold, manual selection	
Trigger mode	internal, manual, external, bus	
Measurement speed ($\geq 1\text{kHz}$)	Fast speed: 200 times/sec, medium speed: 12 times/sec, slow speed: 3 times/sec	
Average time	1—255	
Delay time	0—60s, 1ms as step	
Correction function	Open circuit / short circuit / load	
Test end configuration	Five ends	
List scan	10 points list scan function	
Display mode	Direct reading, Δ , $\Delta\%$, V/I (Measured voltage / current monitoring)	
Display	800×480 RGB7 inch 16: 9 TFT LCD display	
Test signal		
Output impedance	30 Ω , 100 Ω , 50 Ω , 10 /CC optional	
Test signal level	Normal: 5mV-2V, 1mV step constant level: 10mV-1V, 1mV step	
Bias source	internal	-5V~+5V DC bias, accuracy:1%
	optional	UC6802A: $\pm 10\text{V}$ ($\pm 100\text{mA}$) DC bias current UC6802B: 0-1A DC bias current
Display range		
Z , R, X	0.01m Ω — 99.9999 M Ω	
DCR	0.01 m Ω — 99.9999 M Ω	
Y , G, B	0.00001 μS — 99.9999 S	
C	0.00001 pF — 9.9999 F	
L	0.00001 μH — 9999.99 H	
D	0.00001 — 9.9999	
Q	0.00001 — 9999.9	
θ (DEG)	-179.999° — 179.999 °	
θ (RAD)	-3.14159 — 3.14159	
Others		
Comparator function	Ten files: (nine files qualified, a file unqualified), and another subsidiary file AUX	
Memory	10 groups of internal setting files for storage / recall	
Interface	Standard RS232C, HANDLER, USB HOST, headphone interface, optional GPIB, LAN interface	

Instrument Accessories

ONS26010	Gold-plated short circuit board
ONS26005B	Test fixture with four ends
ONS26011B	Four ends Kelvin test cable

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