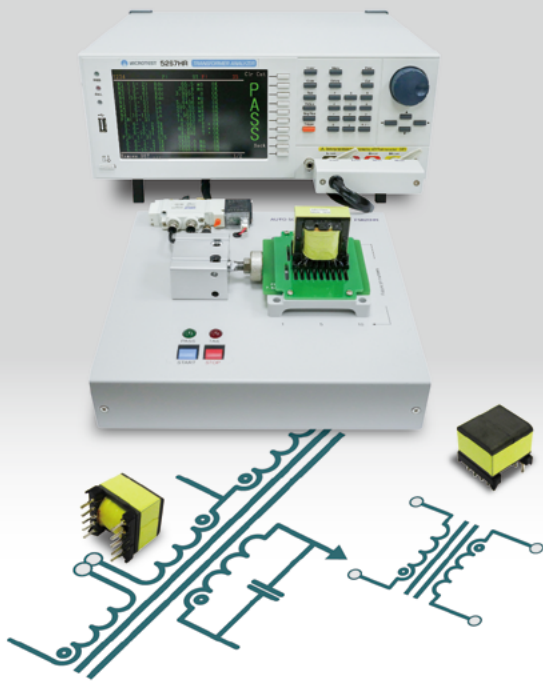


Preferred Solution for Transformer Testing



Short Circuit



Leakage Inductance



Turn Ratio



Series / Parallel Inductance



Winding Resistance



Hipot Test



Isat



Low Voltage IR

Complete Transformer Test Solution One-Station Integrated Automated Testing



5260HR/ 5260N Series
(20 Channels)
Transformer Tester



5460 Series
(48 Channels)
Transformer Tester



2 in 1
Transformer Test System
(Low-Voltage + Withstand
Voltage)



3 in 1
Transformer Test System
(Low-Voltage+ Withstand
Voltage+Impulse Winding
Test)

Low-Voltage Electrical Characteristic Test

Series / Parallel Inductance, Quality Factor (Q), Leakage Inductance, Turns Ratio, Winding Resistance, Distributed Capacitance and Dissipation Factor (Df), DC Bias Current

Hipot Test

ACW 5000V, DCW 6000V, IR 12000M Ω

Low-Voltage Insulation Test

DCW 10–100V | Protect Components, Detect Insulation Defects with High Sensitivity
Simplifying Failure Analysis

Impulse Winding Test

This technique applies a momentary high-voltage pulse to effectively verify the quality of the enameled wire insulation and overall winding insulation system, ensuring reliable transformer performance.

Transformer Analyzer

5260HR/5260N Series

Channel
20

Transformer Tester



• 5260HR

The MICROTEST Transformer Tester provides comprehensive measurement of critical transformer parameters in a single instrument. Measurement items include inductance, leakage inductance, DC resistance, AC resistance, quality factor (Q), capacitance, turns ratio, and pin short-circuit detection. It supports test frequencies of 200kHz, 500kHz, and 1MHz, with a built-in LCR meter measurement mode. Equipped with F5620HR(P) / F5620(P) pneumatic test fixtures, the system offers 20 or 48 channels and supports 100mA DC bias testing. Customized test fixtures are available to meet specific customer requirements.

Application

Power transformers, Electronic transformers

Feature

- Supports 20 Test Channels
- Basic Accuracy $\pm 0.1\%$
- Open/Short Calibration Function
- Test Frequency: 10Hz~200kHz/ 500kHz/ 1MHz
- Meter Mode (Displays 4 Parameters)
- 0.1 m Ω Ultra-Low DC Resistance Measurement (5265HR | 1A)
- Built-in DC Withstand and Insulation Resistance Testing
- 100 mA DC Bias Current Testing (F5620 / F5620HR)
- USB Access for Settings, Test Data, and Screenshots
- DCW 10–100V High-Sensitivity Insulation Testing for Dual-Winding Magnetic Components



• 5260N



Standard Interfaces

RS-232

USB Host

Handler

EXT. I / O

LAN

Specification

Series	5260HR			5260N		
Model	5265HR	5266HR	5267HR	5265N	5266N	5267N
Test Frequency	10Hz~200kHz	10Hz~500kHz	10Hz~1MHz	10Hz~200kHz	10Hz~500kHz	10Hz~1MHz
Channel	20			20		
Frequency Resolution	5 digits					
AC Drive Level	10mV~2Vrms					
Turn Ratio Frequency	50Hz~200kHz					
Output Impedance	100Ω					
LCR Meter Function	●			●		
DC Bias Fixture	100mA (F5620HR)			100mA (F5620)		
Safety Test	DC Withstand and Insulation Resistance Testing					
IR Resolution	Resolution: 0.1MΩ	50MΩ~500MΩ, ±10%		-		
DC Output Voltage	10V~100V, Resolution 1V	Accuracy: ±(3% +5V)		-		
DC Leakage Current	Resolution: 0.01uA	0.02uA~2uA, ±10%		-		
Measurement Parameters	Inductance (Ls), Impedance (Z), Capacitance (C), Reactance (X), Conductance (G), Susceptance (B), Admittance (Y), AC Resistance, Quality Factor (Q), Dissipation Factor (D), Phase Angle (θ), Ultra-low DCR, Leakage Inductance (Lk), Turn Ratio, Balance, Short Circuit, DC Hipot/ Leakage Current, Insulation Resistance					

Parameters Measurement Ranges and Accuracy							
DCR	Series	5260HR		5260N			
	Range	0.1mΩ~99.999MΩ					
	Accuracy	0.01Ω~ 1Ω ±(1%+0.6mΩ)@ 0.1A (CC Mode) 0.001Ω ~ 0.1Ω ±(1%+0.6mΩ) @1A (CC Mode)		0.01Ω~ 1Ω ±(1%+0.6mΩ)@ 0.1A (CC Mode)			
		0.1% (CV Mode)		0.1% (CV Mode)			
	Speed	20ms					
L, LK	Range	0.1nH~9999.99H		Basic Accuracy (AC parameter : 1KHz)	0.1%	Speed	20ms
C		0.00001pF~999.99mF			0.1%		20ms
Q, D		0.00001~99999			0.0005		20ms
Z, X, R		0.00001Ω~99.9999MΩ			0.1%		20ms
Y		0.01nS~99.9999S			0.1%		20ms
θ		-180°~+180°			0.03°		20ms
Turn-Ratio		0.1~99999.9 turns			0.5%		50ms
Pin-Short		12 pairs, between pin to pin (5260 series)			-		15ms

General

Measurement Mode	LCR + Transformer
Measurement Circuit	Series/ Parallel
Correction	Open Circuit/ Short Circuit
Built-in Storage	Testing files 128 sets
USB Host Storage	Depend on USB capacity
Operation	Auto, Manual, Remote Trigger
Interface	RS-232, Handler, LAN, USB Host, EXT.I/O
PC Link Software	●
Power Supply	Voltage : 90Vac~264Vac, Frequency : 47~63Hz
Power Consumption	70VA
Display	800*480 Color LCD, 7" TFT
Environment	Temperature : 10°C~40°C, Humidity : 20~90%RH
Dimension (W*H*D)	358x148x343mm
Weight	4.5Kg

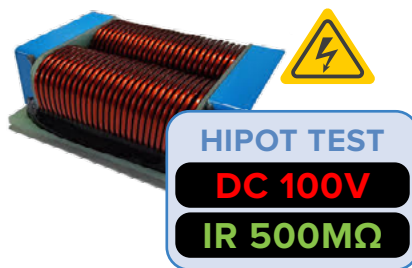
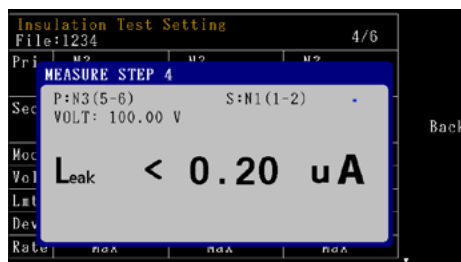
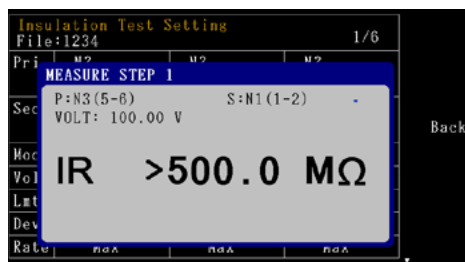
Functions

Preferred Solution for Dual-Winding Insulation Testing

DCW 10V ~ 100V | Insulation Resistance Measurement 50 MΩ ~ 500 MΩ

In dual-winding magnetic components, the insulation quality between the two windings is a critical factor affecting product reliability, service life, and operational safety. The MICROTEST 5260HR Series provides the first line of defense for insulation quality inspection by integrating dedicated testing functions for dual-winding magnetic components.

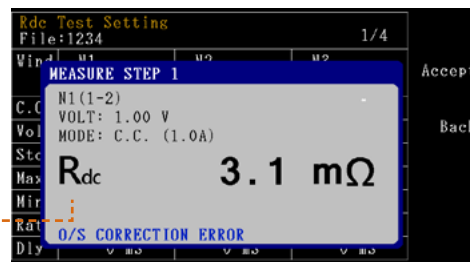
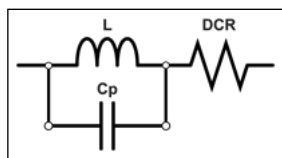
During the winding and assembly processes, insulation defects may result from enamel coating damage caused by mechanical stress or from microscopic conductive contaminants trapped between winding layers. By applying a low-voltage DC test, the instrument is capable of detecting minute leakage current variations with high sensitivity. Any early-stage reduction in insulation resistance is immediately identified, allowing defective components to be reliably classified as FAIL before they proceed to subsequent manufacturing stages.



Ultra-Low DCR Measurement

Low DCR minimizes conductor loss and thermal stress, enabling higher efficiency in modern power and magnetic components.

MICROTEST 5260HR Series delivers precise low-resistance measurement using 1A constant-current excitation, with additional support for Inductance, Leakage Inductance and Turns Ratio testing.



Measurement of Turns Ratio

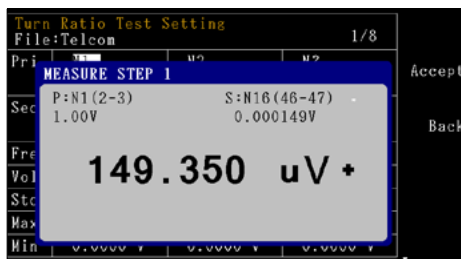
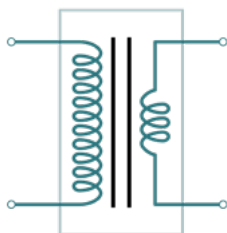
Measurement of turns ratio is conducted on transformers to verify the correctness of winding turns and to confirm the correct winding direction for each winding. MICROTEST supports turns ratio measurement using both inductance and voltage methods.

Voltage method

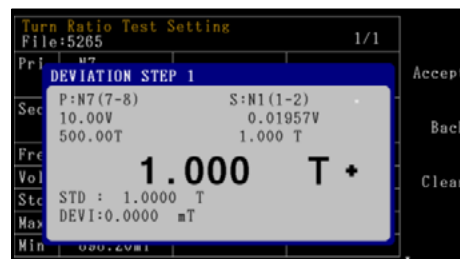
Apply AC voltage to the primary winding and measure the AC voltage on the secondary winding. This method aims to measure the turns ratio and phase relationship between windings.

Inductance method

Measure the inductance of each winding and calculate the turns ratio based on these inductance values. This method provides more accurate results for transformers with higher leakage inductance.



Measurement results displayed as voltage

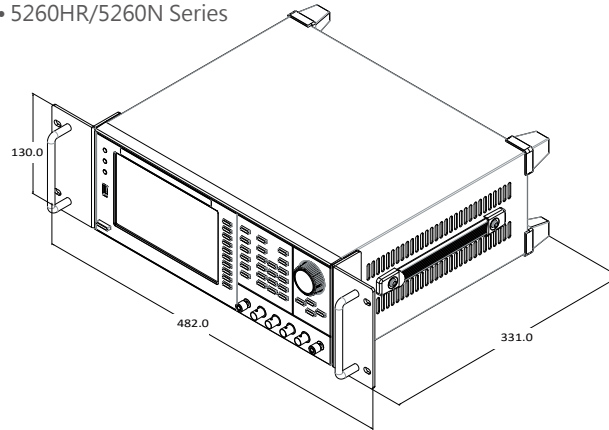


Measurement results displayed as turns ratio

Automatic Chassis Dimension

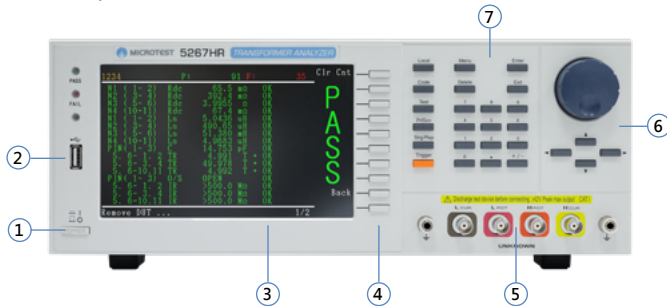
• Dimension (mm)

• 5260HR/5260N Series



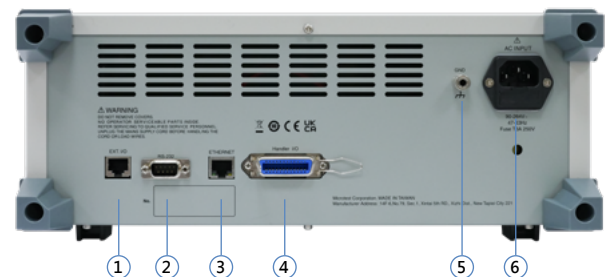
Appearance

• 5260HR/5260N Series



1. Power Switch
2. USB
3. LCD Screen
4. Function
5. BNC Terminal

6. Direction
7. Numeric/ Menu key



1. EXT. I/O
2. RS232
3. LAN
4. Handler

5. GND
6. AC INPUT/ Fuse Block

Ordering Information

Transformer Tester Series	Standard	Optional
5265HR(Frequency Range 10Hz~200kHz I 20 channels) 5266HR(Frequency Range 10Hz~500kHz I 20 channels) 5267HR(Frequency Range 10Hz~1MHz I 20 channels) 5265N(Frequency Range 10Hz~200kHz I 20 channels) 5266N(Frequency Range 10Hz~500kHz I 20 channels) 5267N(Frequency Range 10Hz~1MHz I 20 channels)	5260HR Series - F5620HR(P) Transformer Scan Box (Pneumatic)(20CH) - F522001 Fixture Head (7.5/5.0-5.0mm) - TL-000006 LAN Cable - Power Cord 5260HR Series - F5620(P) Transformer Scan Box (Pneumatic)(20CH) - F522001 Fixture Head (7.5/5.0-5.0mm) - TL-000006 LAN Cable - Power Cord	- F564802 Fixture Head (5.0-5.0mm) - F5620(M) Transformer Scan Box (Manual)(20CH) - F5648(M) Transformer Scan Box (Manual)(48CH) - FX-LR0007 Kelvin Clip Leads (100cm) - FX-LR0008 Kelvin Clip Leads (200cm) - HI-0001 Handler Box - TL-000003 RS-232 Cable (180cm) - F522010 RCA-Foot Switch - Handler Cable - PC Link Software

Fixture & Accessories

F5620HR(P)

Transformer Scan Box (Pneumatic)



F5620HR(M)

Transformer Scan Box (Manual)



Applicable Models	5260HR Series	5260HR Series
Accessory Description	20 channels	20 channels

F5620(P)

Transformer Scan Box (Pneumatic)



F5648(P)

Transformer Scan Box (Pneumatic)



F7721A

Single Scan Control Box



Applicable Models	5260 Series	5460 Series	2-in-1/ 3-in-1
Accessory Description	20 channels	48 channels	20 channels

F7721-D

Dual Scan Control Box



TL-000006

LAN Cable



F522010

RCA-Foot Switch



Applicable Models	2-in-1/ 3-in-1	5260 Series/ 5460 Series	5260 Series/ 5460 Series
Accessory Description	20 channels I Dual	150cm	External Control

F5620(M)

Transformer Scan Box (Manual)



F5648(M)

Transformer Scan Box (Manual)



HI-0001

Handler Box



Applicable Models	5260 Series/ 5460 Series	5260 Series/ 5460 Series	5260 Series/ 5460 Series
Accessory Description	20 channels	48 channels	External Control

FX-LR0007

Kelvin Clip Leads (100cm)

**FX-LR0008**

Kelvin Clip Leads (200cm)



Frequency	DC~3MHz	DC~1MHz
Max. Voltage/ Current	±42V	±42V
DUT Size	Max.15mm	Max.15mm
Applicable Models	5260HR/ 5260N/ 5260/ 5460 Series 5260HR/ 5260N/ 5260/ 5460 Series	

TL-000003

RS-232 Cable

**Handler Cable****TL-000013**

D-Sub Cable



Applicable Models	5260 Series/ 5460 Series/ 2-in-1/ 3-in-1	5260 Series/ 5460 Series	2-in-1/ 3-in-1
Accessory Description	Connect to a computer, and transmit commands to control the instrument from the computer.	Remote Control	25Pin F /25Pin F

TL-000002

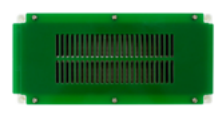
Banana Plug-HV Test Cable-Red

**F522001**

Fixture Head

**F564802**

Fixture Head



Applicable Models	2-in-1/ 3-in-1	5260 Series	5460 Series
Accessory Description	HV 20kV 60cm	7.5/5.0-5.0mm	5.0-5.0mm