

UTS1000B/T Series Spectrum Analyzer

Datasheet

V1.3 June 2025

Product Features

- Frequency measurement range: 9 kHz to 1.5 GHz, 9 kHz to 3.2 GHz
- Display average noise level (DANL) can be as low as -161 dBm (Typical value)
- Phase noise < -98 dBc/Hz (Offset 10 kHz, typical value)
- Full amplitude Precision < 0.7 dB
- Up to 10,001 scanning points
- Minimum resolution bandwidth (RBW) 1 Hz
- Advanced function one key measurement (Option)
- EMI Pre-compliance analysis function (Option)
- Supports analog demodulation analysis (Option)
- Supports tracking generator output function (UTS1000T Only)
- 10.1-inch 1280 × 800 HD capacitive touch screen
- Provides USB/LAN interface, supports SCPI protocol

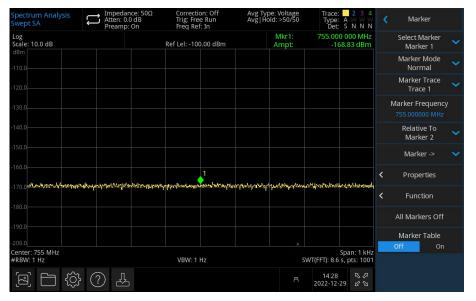
Multi-touch HD Screen for Quick Operation

10.1-inch multi-touch HD capacitive screen with quick menu settings. Supports multiple gesture operations such as dragging, expanding, and zooming on the trace. Convenient human-computer interaction operation solves the problem of cumbersome and difficult operation to the greatest extent.



Excellent Sensitivity to Test Weaker Signals

The weak signal test is easily affected by the noise floor of the spectrum analyzer itself. UTS1000B/T series has a DANL as low as -161 dBm, providing excellent sensitivity to effectively test weak signals.



Removable Dust Mesh

With a detachable dust filter, after the instrument is used for a period of time, the user can remove the dust from the air inlet. To ensure the reliability of the whole machine, it can avoid short-circuit, burn or fire caused by dust.



Scan 10,001 points

UTS1000B/T series provides up to 10,001 sweep points, offering higher frequency resolution and making it easier to capture signals that are difficult to detect.

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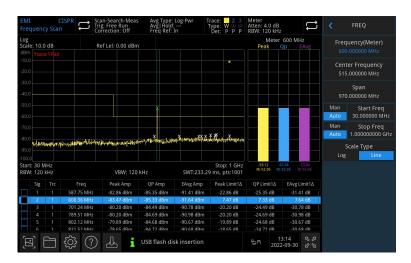
Excellent Selectivity

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It has a stronger capability to resolve signals of adjacent unequal amplitudes.

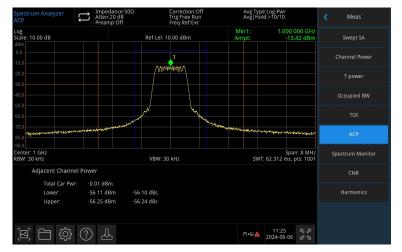
EMI pre-compliance (Option)

UTS1000B/T series includes optional components that, when used with near-field probes, assist in locating and resolving EMI defects in advance, thereby shortening the development cycle.



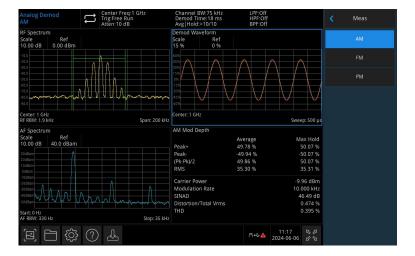
Advanced measurement (Option)

The advanced measurement mode provides the test items required by the transmitter test specification: Channel Power, T-power, Occupied BW, TOI, ACP, Spectrum Monitor, CNR, and Harmonics.



Analog demodulation analysis (Option)

Provides AM, FM analog signal for demodulation analysis



Definitions and Conditions

"Specifications" describes the performance of the parameters covered by the product warranty in detail, unless otherwise noted, these specifications apply to the temperature range of 20°C to 30° C.

"Typical" refers to other product performance information not covered by the product warranty. 80% of the units can exhibit 95% confidence over the temperature range of 20 °C to 30 °C when performance is out of specification. Typical performance does not include measurement uncertainty.

"Nominal Value" means expected performance, or describes product performance that is useful in product applications but not covered by the product warranty.

The analyzer can meet its specifications under the following conditions:

It is within its calibration cycle and has warmed up for at least 30 minutes.

If the analyzer has been stored within the allowable storage temperature range but outside the allowable operating temperature range, it must be placed within the allowable operating temperature range for at least two hours before starting.

Product Function	and Model	Comparison	Table
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	UTS1015B	UTS1032B	UTS1015T	UTS1032T
Spectrum analysis	•	•	•	•
EMI	0	0	0	0
Analog demodulation	0	0	0	0
Advanced measurement	0	0	0	0
Tracking generator	×	×	•	•

Note: ● Standard ○ Option × Not supported

Frequency and Time Specifications

Frequency					
Model	UTS1015B/T	UTS1032B/T			
Frequency range	9 kHz to 1.5 GHz	9 kHz to 3.2 GHz			
Resolution bandwidth	1 Hz				
10 MHz internal frequency r	eference				
Frequency reference	10.000000 MHz				
Precision	± [(time since last adjust stability +calibration Pressure 2014)	stment x aging rate) + temperature ecision]			
Achievable initial calibration Precision	< 1 ppm				
Temperature stability	< 1 ppm	5 to +45 °C, take 25 °C as reference			
Aging rate	≤ ±1.0 ppm/ year				
Frequency readout Precision	n (start, stop, center, n	narker)			
Marker resolution	Span / (Sweep point-1)				
Marker frequency uncertainty	± (Marker frequency x Frequency reference Precision + 1 % x Span + 10 % x RBW+ Marker resolution)				
Marker Mode	Normal, Delta∆, Fixed	Normal, Delta∆, Fixed			
	Marker Noise, Band Power, Band Density, N dB, Counter				
Marker function	Marker Noise, Band Pov	ver, Band Density, N dB, Counter			
Marker function Counter resolution	Marker Noise, Band Pov 1 Hz	ver, Band Density, N dB, Counter			
	1 Hz	wer, Band Density, N dB, Counter Frequency reference precision + Counter			
Counter resolution Uncertainty of frequency	1 Hz ± [Marker frequency x F resolution]				
Counter resolution Uncertainty of frequency counter	1 Hz ± [Marker frequency x F resolution] vept mode)				
Counter resolution Uncertainty of frequency counter Frequency span (FFT and sw Sweep range	1 Hz ± [Marker frequency x F resolution] vept mode)	Frequency reference precision + Counter			
Counter resolution Uncertainty of frequency counter Frequency span (FFT and sw	1 Hz ± [Marker frequency x F resolution] vept mode) 0 Hz, 100 Hz to 1.5 GHz	Frequency reference precision + Counter 0 Hz, 100 Hz to 3.2 GHz			
Counter resolution Uncertainty of frequency counter Frequency span (FFT and sw Sweep range	1 Hz ± [Marker frequency x F resolution] vept mode) 0 Hz, 100 Hz to 1.5 GHz Swept	Frequency reference precision + Counter 0 Hz, 100 Hz to 3.2 GHz ±[0.25%*Span+Span / (Points-1)]			
Counter resolution Uncertainty of frequency counter Frequency span (FFT and sw Sweep range Sweep Precision Sweep time and triggering	1 Hz ± [Marker frequency x F resolution] vept mode) 0 Hz, 100 Hz to 1.5 GHz Swept	Frequency reference precision + Counter 0 Hz, 100 Hz to 3.2 GHz ±[0.25%*Span+Span / (Points-1)] ±[0.10%*Span+Span / (Points-1)]			
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Counter resolution Uncertainty of frequency counter Frequency span (FFT and sw Sweep range Sweep Precision Sweep time and triggering Sweep time Sweep Type Rule Sweep Mode	1 Hz ± [Marker frequency x F resolution] vept mode) 0 Hz, 100 Hz to 1.5 GHz Swept FFT 1 ms to 4,000 s (span ≠ 1 μs to 4,000 s (span = Precision, Normal Swept (1 kHz to 1 MHz),	Frequency reference precision + Counter 0 Hz, 100 Hz to 3.2 GHz ±[0.25%*Span+Span / (Points-1)] ±[0.10%*Span+Span / (Points-1)] (Po			
Counter resolution Uncertainty of frequency counter Frequency span (FFT and sw Sweep range Sweep Precision Sweep time and triggering Sweep time Sweep Type Rule Sweep Mode Sweep Rules	1 Hz ± [Marker frequency x F resolution] vept mode) 0 Hz, 100 Hz to 1.5 GHz Swept FFT 1 ms to 4,000 s (span ≠ 1 μs to 4,000 s (span = Precision, Normal Swept (1 kHz to 1 MHz), Single, Continuous	Frequency reference precision + Counter 0 Hz, 100 Hz to 3.2 GHz ±[0.25%*Span+Span / (Points-1)] ±[0.10%*Span+Span / (Points-1)] (Po			

Range (-3dB bandwidth)	1 Hz to 1 MHz, 1-3-10 steps
Selectivity (-60 dB/-3 dB)	< 4.8: 1 (Nominal) -60 dB: -3 dB
Bandwidth Precision (-3dB)	< 5 % (Nominal)
Video bandwidth (VBW)	
Range	1 Hz to 1 MHz,1-3-10 steps
Uncertainty of video bandwidth	< 5%

Amplitude Precision and Range Specifications

Amplitude range				
range	10 MHz to maximum frequency: (DANL) to +30 dBm			
Reference level	-100 dBm to+30 dBm, steps 1 dB			
Preamp	20 dB, Nominal, 9 kHz to	1.5 GHz (3.2 GHz)		
Input attenuator range	0 to 51 dB, 1 dB Step			
Maximum safe input level				
DC volts	50 V DC	max		
Maximum continuous wave RF	≤ +33 dBm	3 minutes,		
power		Input attenuation > 20 dB		
Display range				
Log scale	1 dB to 200 dB			
Linear scale	0 to Reference level			
Scale units	dBm, dBmV, dBµV, V, W			
Sweep (trace) point range	10,001			
Number of traces	4			
Detector	Sample, Peak, Negative, N	Normal, Average		
Тгасе Туре	Clear/Write, Average, Ma	x Hold, Min Hold		
Frequency response				
20°C to 30°C, 30% to 70% relative	humidity, Input attenuation	n 20 dB, be relative to 50 MHz.		
Preamp Off	9 kHz to 3.2 GHz	±0.6 dB; ± 0.3 dB, Typical		
Preamp On	100 kHz to 3.2 GHz	±1.0 dB; ± 0.8 dB, Typical		
Error and precision				
Resolution bandwidth switching	Relative to 10 kHz RBW log	garithmic resolution ± 0.2 dB, linear		
uncertainty	resolution ± 0.01, Nomina	al		
Input attenuation switching	20 to 30 °C, fc=50 MHz,	Preamp Off, Relative to 20 dB		
uncertainty	attenuation, Input attenua	ation 1 to 51 dB		
	± 0.5 dB			

	20 to 30 °C, fc=50 MHz, RBW=1 kHz, VBW=1 kHz, Peak				
Absolute amplitude Precision	detectors, Input attenuation20 dB				
	± 0.4 dB, Input signal lev	el -20 dBm, Preamp Off			
	± 0.5 dB, Input signal level -40 dBm, Preamp On				
	20 to 30 °C, fc > 100 kHz, Input signal level -50 dBm to 0				
Tabal akaalista awayiku da Duasiaian	dBm, RBW = 1 kHz, VBW = 1 kHz, Peak detectors, Input				
Total absolute amplitude Precision	attenuation 20 dB, Preamp Off, 95% confidence				
	± (0.4 dB+ Frequency response)				
Input voltage standing wave ratio	1 MHz to 1.5 GHz	1 MHz to 3.2 GHz			
(VSWR)	≤ 1.8 (Nominal)	≤ .8 (Nominal)			

Dynamic Range Specifications

1 dB gain c	1 dB gain compression					
	-	20 to 30 °C, fc ≥ 50 MHz, Inp	ut attenuation 0 dB, Preamp off			
	> -5 dBm, Nominal					
Displayed a	Displayed average noise level (DANL)					
20 to 30 °C,	20 to 30 °C, 0dB RF attenuation, RBW=1 Hz, VBW=1 Hz, sample detector, average > 50					
		UTS1015B/T	UTS1032B/T			
	9 kHz to 500 kHz	-130 dBm (Nominal)	-105 dBm (Nominal)			
	500 kHz to 1 MHz	-143 dBm, -145 dBm (Typical)	-115 dBm, -120 dBm (Typical)			
	1 MHz to 10 MHz	-142 dBm, -144 dBm (Typical)	-127 dBm, -130 dBm (Typical)			
Preamp off	10 MHz to 200 MHz	-142 dBm, -143 dBm (Typical)	-142 dBm, -145 dBm (Typical)			
	200 MHz to 1.5 GHz	-140 dBm, -142 dBm (Typical)	-143 dBm, -146 dBm (Typical)			
	1.5 GHz to 3.2 GHz		-140dBm, -143dBm (Typical)			
	9 kHz to 500 kHz	-145 dBm (Nominal)	-125 dBm (Nominal)			
	500 kHz to 1 MHz	-155 dBm, -157 dBm (Typical)	-130 dBm, -135 dBm (Typical)			
	1 MHz to 10 MHz	-155 dBm, -158 dBm (Typical)	-145 dBm, -147 dBm (Typical)			
Preamp on	10 MHz to 200 MHz	-158 dBm, -160 dBm (Typical)	-158 dBm, -160 dBm (Typical)			
	200 MHz to 1.5 GHz	-159 dBm, -161 dBm (Typical)	-161 dBm, -164 dBm (Typical)			
	1.5 GHz to 3.2 GHz		-159 dBm, -161 dBm (Typical)			
Spurious re	sponses					
Second harm	nonic distortion (SHI)	20 to 30 °C , Preamp off,	Signal input-30 dBm, 0dB RF			

	attenuation			
	fc ≥ 50 MHz	-65 dBc/+35 dBm		
Third-order intermodulation	20 to 30 °C, Preamp off, Signa	al input-20 dBm, 0 dB RF		
distortion (TOI)	attenuation, fc \ge 50 MHz			
	+10 dBm; +13 dBm Nominal			
Input related spurious	20 to 30 °C, Mixer level: -30 c	lBm		
	< -60 dBc	< -60 dBc		
Residual responses	20 to 30 °C, Input port 50 $\Omega,$	RF attenuation 0 dB		
Residual responses	< -90 dBm			
Phase noise				
20 to 30 °C, fc = 1 GHz, RBW=1 k	Hz, VBW=10 Hz, Sampling deteo	ction, Log avg, avg> 50		
Offset	UTS1015B/T	UTS1032B/T		
10 kHz	-95 dBc/Hz, -98 dBc/Hz	-95 dBc/Hz, -98 dBc/Hz		
	(Typical)	(Typical)		
100 kHz	-96 dBc/Hz, -98 dBc/Hz	-93 dBc/Hz, -98 dBc/Hz		
	(Typical)	(Typical)		
1 MHz	-115 dBc/Hz,	-115 dBc/Hz,		
	-120 dBc/Hz (Typical)	-120 dBc/Hz (Typical)		
10 dB/div Ref -70 dBc/Hz -80 -90 -90 -100 -100 -100 -120 -130 -140 -150 -150 -160 -170 CF=1000M -100 Hz 100 Hz		Mkr1 10.0 kHz -101.45dBc/Hz		

Tracking Generator Specifications (UTS1000T Only)

Frequency		
Frequency range	100 kHz to 1.5 GHz	10 MHz to 3.2 GHz
Counter resolution	10 Hz	
Output power level		
Range	-40 dBm to 0 dBm	
Resolution	0.5 dB	
	be relative to 50 MHz	
Flatness output	± 3 dB	
Maximum safe reverse inpu	t level	
Average total power	30 dBm	
AC coupling	±50 VDC	

Analog Demodulation Analysis (Option)

2 MHz to 1.5 GHz	2 MHz to 3.2 GHz
± 2 dB	
-30 dB to +20 dBm	Automatic attenuation
0.01 dBm	
20 Hz to 100 kHz	
1 Hz (Nominal)	Modulation rate <1 kHz
< 0.1%Modulation rate (Nominal)	Modulation rate ≥1 kHz
5 to 95%	
± 4% (Nominal)	
20 Hz to 100 kHz	
1 Hz (Nominal)	Modulation rate < 1 kHz
< 0.1% Modulation rate (Nominal)	Modulation rate ≥ 1 kHz
1 kHz to 400 kHz	
± 4% (Nominal)	
	 ± 2 dB -30 dB to +20 dBm 0.01 dBm 20 Hz to 100 kHz 1 Hz (Nominal) < 0.1%Modulation rate (Nominal) 5 to 95% ± 4% (Nominal) 20 Hz to 100 kHz 1 Hz (Nominal) < 0.1% Modulation rate (Nominal) < 0.1% Modulation rate (Nominal) 1 kHz to 400 kHz

EMI (Option)

EMI Resolution bandwidth		
Resolution bandwidth (-6dB)	200 Hz, 9 kHz, 120 kHz, 1 MHz	
Resolution bandwidth	< 5%, (Nominal)	
Precision		
EMI detector		
EMI detector	Peak, Negative Peak, Quasi Peak, EMI Average, Average	
EMI Main function		
Main function	EMI Standard: CISPR	
	View: Scan table, Meter, Signal table	
	Meter control	
	Avg settings	
	Limit: AS-NZS, BellCore, DEF-STAN, DO-160, EN, FCC, GB9254, MIL-461,	
	VCCI and Custom	
	Signal table settings	
	Scan table settings	
	Scan Sequence: Scan, Search, Scan-Search-Meas, Scan-Search,	
	Search-Meas, Measure	
	Sig Detector	
	Output report	

Advanced measurement kit (Option)

Power Measurement		
Channel power	Channel power, Power spectral density	
ACP (Adjacent Channel Power)	Main CH Power, Left channel power, Right channel power	
Occupied bandwidth	Occupied Bandwidth, Transmit Frequency Error	
Time domain power	Zero Span Integrated Power	
CNR (Carrier Noise Ratio)	C/N, Noise Power	
Non-Linear Measurement		
TOI, Third-order intercept	Measure the third-order products from two tones	
Harmonic measurement	Max Harmonic number 10	
Spectrum Monitor Measurement		
Spectrogram		

Interface and display

Common interface		
RF input	Type-N female, 50 Ω , nominal	
Front panel trace source output	Type-N female, 50 Ω , nominal	
10 MHz Ext Ref In	10 MHz, > 0 dBm, BNC female, 50 Ω , nominal	
10 MHz out	10 MHz, -5 dBm to +10 dBm, BNC female, 50 $\Omega,$ nominal	
External trigger input	TTL, BNC female	
HDMI display	HDMI 1.4 display interface	
USB-Host	USB-A	
USB-Device	USB-B	
LAN	LAN (VXI11), 10/100/1,000 Base, RJ-45	
Headphone Jack	3.5 mm (1/8 inch) miniature stereo audio jack	
Display screen		
Display type	10.1-inch capacitive multi-touch panel	
Display resolution	1280×800, RGB Vertical pixel	

General Technical Specifications

Specifications			
Supply voltage	100 to 240 VAC (Fluctuations ± 10%)	100 to 120 VAC (Fluctuations ± 10%)	
Frequency	50/60 Hz 400 Hz		
Environment			
Tomporaturo rango	operation: 0°C to +40°C		
Temperature range	Non-operating: -20°C to +60°C		
Cooling method	Fan forced cooling		
	Operation: Below + 35 °C \leq 90% relative humidity;		
Humidity range	Non-operating: + 35 °C to +40 °C \leq 60% relative humidity		
Altitude	Operation: Below 3,000 m; Non-operating: Below 15,000 m		
Pollution degree	2		
Operating environment	Indoor use		
Mechanical specifications			
Dimensions	378mm×218mm×120mm (Width x Height x Length)		
Net weight	4.55 kg		
Calibration period	The recommended calibration period is one year		

Regulatory standards

EMC	Compliance with EMC directives (2014/30/EU), conform to or better than IEC 61326-1:2021/EN61326-1:2021, IEC 61326-2-1:2021/EN61326-2-1:2021		
Conductive disturbance	CISPR 11/EN 55011	CLASS B group 1, 150 kHz-30 MHz	
Radiation disturbance	CISPR 11/EN 55011	CLASS B group 1, 30 MHz-1 GHz	
Electrostatic discharge (ESD)	IEC 61000-4-2/EN 61000-4-2	±4.0 kV (Contact), ±8.0 kV (air)	
Radio frequency electromagnetic field immunity	IEC 61000-4-3/EN 61000-4-3	3 V/m (80 MHz to 1 GHz) ; 1 V/m (1.4 GHz to 6 GHz)	
Electrical fast transient burst (EFT)	IEC 61000-4-4/EN 61000-4-4	±1 kV (AC input port)	
Surge	IEC 61000-4-5/EN 61000-4-5	±0.5 kV (Live line to zero line) ±1 kV (Fire/zero line to ground)	
Immunity to RF continuous conduction	IEC 61000-4-6/EN 61000-4-6	3V, 0.15-80 MHz	
Voltage dips and short interruptions	IEC 61000-4-11/EN 61000-4-11	Voltage dip: 0% UT during 0.5 cycle; 0% UT during 1 cycle; 70% UT during 25/30 cycles Short Interruption: 0% UT during 250/300 cycles	
Safety regulations			
	EN 61010-1:2010+A1:2019 EN IEC61010-2-030:2021+A11:2021 UL 61010-1:2012 Ed.3+ R:19 Jul2019 UL 61010-2-030:2018 Ed.2 CSA C22.2#61010-1:2012 Ed.3+U1;U2;A1 CSA C22.2#61010-2-030:2018 Ed.2		

Order Information

	Description	Order No.	
	Spectrum analyzer, 9 kHz to 1.5 GHz	UTS1015B	
	Spectrum analyzer, 9 kHz to 3.2 GHz	UTS1032B	
Model	Spectrum analyzer, 9 kHz to 1.5 GHz, TG	UTS1015T	
	Spectrum analyzer, 9 kHz to 3.2 GHz, TG	UTS1032T	
Standard	Power cord ×1		
accessories	USB cable x1	UT-D14	
Recommended option	ns & accessories		
	Advanced measurement kit	UTS1000-AMK	
Ontiona	EMI measurement option	UTS1000-EMI	
Options	Analog demodulation analysis option	UTS1000-AMA	
	SMAJ-NJ-0.7M DC-6G cable x1	UT-W02-6GHz	
	NJ-NJ-0.7M DC-6G cable x1	UT-W01-6GHz	
	Adapter SMA-N-KJ-T DC-6GHz x2	UT-C01-6GHz	
UT-CK01	Adapter N-BNC-JK DC-4GHz x2	UT-C02-4GHz	
accessories kit	Antenna 2400 MHz-2500 MHz x2	UTS-T01	
	Antenna 824-960 MHz/1710-1990 MHz x2	UTS-T02	
	50Ω-SMA-SMB cable x1	UT-W03	
UTS-EMI01 Near-field probes kit	Adapter SMA-N-KJ-T DC-6 GHz x1	UT-C01	
	Near field probe, frequency range 30 MHz-3		
	GHz, Detection range 10 cm x1	NFP-3G-P1	
	Near field probe, frequency range 30 MHz-3	NFP-3G-P2	
	GHz, Detection range 3 cm x1		
	Near field probe, frequency range 30 MHz-2	NFP-2G-P3	
	GHz, resolving power 5 mm x1		
	Near field probe, frequency range 30 MHz-3	NFP-3G-P4	
	GHz, resolving power 2 mm x1		

Options ordering and installation

- 1. **Purchase options:** Based on your requirements, please purchase the specified function options from Uni-t Sales Personnel and provide the serial number of the instrument that needs the option installed.
- 2. **Receive certificate:** You will receive the license certificate based on the address provided in the order.
- 3. **Register and obtain license:** Visit the Uni-t official website license activation session for registration. Use the license key and instrument serial number provided in the certificate to obtain the option license code and license file.
- 4. **Install the option:** Download the option license file to the root directory of a USB storage device, and connect the USB storage device to the instrument. Once the USB storage device is recognized, the Option Install menu will be activated. Press this menu key to begin installing the option.

Limited Warranty and Liability

UNI-T guarantees that the Instrument product is free from any defect in material and workmanship within three years from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination, or improper handling. If you need a warranty service within the warranty period, please contact your seller directly. UNI-T will not be responsible for any special, indirect, incidental, or subsequent damage or loss caused by using this device. For the probes and accessories, the warranty period is one year. Visit instrument.uni-trend.com for full warranty information.



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