

Digital Ripple & Noise Meter RNA-103

Indispensable tool for DC Power Supply periodic check



http://www.keisoku.co.jp/

Digital Ripple & Noise Meter



- Automatic measurement possible which is correlated to oscilloscope reading.
- Realized "One touch measurement without hesitation" by digital technology!
- Automatic "PASS" or "FAIL" judgment!
- Conforming to JEITA standard. (JEITA: Japan Electronics and Information Technology Industries Association,)

It is mandatory to conduct periodic maintenance of the power supplies in industrial equipment used in power plant or other public services.

As power supply is the key devise in the system and their system will shut off when power supply failed and will cause serious damage to our life. Normally ripple voltage and noise voltage of the power supply are measured in the periodic check but those are not that straightforward.

Since the measuring object is "NOISE", reading waveforms on the oscilloscope is very complicated and good experience is needed. However digital ripple & noise meter can discriminate them and read them accurately.



Measurement by oscilloscope

The reading result is heavily relying to the operator.

Panel operation is not simple

Need additional differential probes to measure



The output of switching power supply contains various kinds of waveforms and are all combined. With RM-103, 5 different voltages can be measured easily.



*It is possible to judge if the capacitance of the electrolytic capacitor used inside of the switching power supply is in allowable range or not by measuring D (Switching ripple) or B (Ripple) above.

From now on…



No reading error due to digital display

One touch simple measurement

Passive type differential probe as a standard accessory

Specification

RM-103 Ripple & Noise Meter



Range ± 6.000V ± 60.00V ± 50.00V Resolution 0.1mV 1.0mV 10.0mV Accuracy (*5) ± 0.025% of rdg. ± 0.025% of rds.	DC Volt. Measurement					
Resolution0.1mV1.0mV10.0mVAccuracy (*5)± 0.025% of rdg. ± 0.025% of fs.Max. Applied Volt.± 500VMeasurement Timeless than 90ms(Fast Mode) / less than 250ms(Slow Mode)Ranges3000.mVp-p3000.mVp-pResolution0.1mV1.0mVAccuracy (*1,*2,*3)± 2% of rdg. ± 1% of fs.Nominal Bandwidth0.1mV1.0mVLF Bandwidth0.1mV1.0mVLF Bandwidth2KHz~HF Bandwidth0.1m22KHzTHRU Bandwidth0.5%~2 No% (Resolution 0.5%)Masurement Time (*4)0.5%~50.0% (Resolution 0.5%)Allewed Input Voltage0.5%~50.0% (Resolution 0.5%)Input Condition0.1mV100MHzInput Condition50 Ohm Signal Cable RG-58 / Differential Probe DP-100Input Cable50 Ohm Signal Cable RG-58 / Differential Probe DP-100Input CablePhotoCoupler Output same Common (14 pin Connector)ASS/FAIL JudgmentPhotoCoupler Output same Common (14 pin Connector)AGEN CONNECTBNC ConnectorGP-18Conform 0.12 BNC ConnectorAGS/FAIL JudgmentPhotoCoupler Output same Common (14 pin Connector)ACH OutputPhotoCoupler Output Same Common (14 pin Connector)ACH OutputBNC ConnectorOther FunctionBNC ConnectorGeneralAC90-264V(S0Hz/60Hz)Input Connector20VADimensions, Weight180(W)x85(H)x300(D) mm , approx.1.7kg	Range	\pm 6.0000V	± 60.	000V	± 500.00V	
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	Dimensions , Weight	180(W)x85(H)x300(D) mm , approx.1.7kg				

*1 Effective when Ripple Ratio is setup between 0% and 10%. *2 Effective when Frequency Range is between 10kHz and 10MHz. *3 Operates when Frequency Range is between 10kHz and 100MHz. *4 Measurement Time in the same Measurement Range. *5 Guaranteed for 6 months when Operational Temp. is 23+-5degree C and Humidity is less than 70degree C.

DM-100A Differential probe

The DP-100 reduces common mode noise drastically then measures the signal between two measurement points accurately. No power to the probe is required.



Common mode rejection ratio	CMRR = 40dB (100MHz)	
Maximum input voltage	± 200V DC or AC p-p	
Attention ratio	1:1	
Frequency bandwidth	DC ~ 100MHz	
Impedance	50 Ohm (> 1MHz)	
Input capacitance	0.01uF (When terminated by RM-103)	

TRC-50F2 HF terminator

When measuring Ripple & noise with an oscilloscope, using this 50 ohm terminator (50 ohm resistor and DC cut capacitor inclusive) is recommended for accurate measurement because it can resuce Noise Reflection due to impedance unbalance. The TRC-50F2 conforms JEITA specification.



Max. Input Voltage	DC ± 500V
Impedance	50 Ohm
Frequency bandwidth	1 MHz \sim 100 MHz
Allowable continuous power	0.25W
Connector	BNC
Dimensions	17 $\phi imes$ 54 (L) mm

% RM-103 is equipped with a terminator equivalent to TRC-50F2.

• The content of this catalog is generated based on the latest data as of June 2012. • Please consult us for the latest specification, price and availability of the product prior to ordering. All brand names, product names and company name are registered trademarks of their respective companies. • Information in this document is subject to change without notice.

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