

# Nagman 6½ Digit Precision Digital Multimeter

Model : N6581

Widely used in Electronic Testing



Front Panel



Rear Panel

## SALIENT FEATURES

- 6½ Resolution
- Equipped with a 3.5" Color Display Screen
- Resolution Ratio 320\*480
- Customizable Display Interface
- Bi-parameter Display
- Conduct Remote Operation thro' Interfaces of IEEE 488, RS-232, LAN & USB Device.
- With functions of trigger Input & Output of Measuring completion
- The front-panel menu is with USB port for data storage, procedure updating and configuration.
- Customers can update host software by themselves.
- 2 & 4 wire measurement for Resistance, 10Ω and 1GΩ Measurement Range for extension.
- Measurement of Period & Frequency, Frequency can reach to 300 kHz.
- Capacitance Measurement.
- User settable Sensor Measurement
- Maximum Current Measurement Capacity upto 12A
- Math Functions: (Maximum Value, Minimum Value And Average Value), Zero Elimination, dB, dBm & limit
- Graphic Display: Tendency Chart, Histogram, History Curve, Listing & Other Display Methods.
- Support SCPI programming language & many command sets (Agilent 34401A and Fluke 45).
- With Internal & External Calibration Functions.

## GENERAL TECHNICAL SPECIFICATIONS :

Power Supply	220V AC ±10%, 45~66Hz, or 2110V AC ±10%, 45 ~ 440Hz
Function	< 20 W
Display	3.5-inch TFT LCD, resolution 48x320, color 16M
Temperature range	- 5°C ~ + 45°C
Humidity range	5% ~ 85% relative humidity
Interface	RS232, USB Host, USB Device, LAN, GPIB
Dimensions	102mm X 265 mm x 335mm (H x W x D)
Weight	2.7kg

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## TECHNICAL SPECIFICATIONS

Model		N6581
Display		3.5" color display (resolution 320*480)
Digits		6½
Signal Terminal		In both Front & Rear Panels
Maximum Measurement Speed		2500 readings per second
Function Items		Uncertainty, ±(% measurement + % range)
DCV	Uncertainty	0.0035+ 0.0005
	Measuring Range	0 mV~1000 V
	Maximum Resolution	100nV
ACV	Uncertainty	0.06 + 0.03
	Measuring Range	1 mV~750 V
	Maximum Resolution	100nV
	Frequency Range	3 Hz ~ 300 kHz
DCI	Uncertainty	0.05 + 0.006
	Measuring Range	0 uA ~ 12 A
	Maximum Resolution	10 pA
ACI	Uncertainty	0.10 + 0.04
	Measuring Range	1 uA ~ 12 A
	Maximum Resolution	100 pA
	Frequency Range	3 Hz ~ 10 kHz
Resistance	Uncertainty	0.01 + 0.001
	Measuring Range	0Ω ~ 1 GΩ
	Maximum Resolution	10 uΩ
Frequency/Period	Uncertainty	0.01%
	Measuring Range	3 Hz ~ 1 MHz
	Maximum Resolution	1 uHz
Capacitance	Uncertainty	1 + 0.3
	Measuring Range	0 nF ~ 100 mF
	Maximum Resolution	1 pF
On- Off/Diode		Yes
Proportion (DC : DC)	Reference Range	100mV ~ 10 V
	Input Range	100mV ~ 1000 V
Temperature	Type	Platinum Resistance, Thermistor, Custom Sensor
	Maximum Resolution	0.001°C
Mathematical Functions		Relative to (ax + b), Maximum / Minimum / Average, Standard Deviation, dB, dBm, Read Retention, Limit Test
Graphics		Histogram, Trend Graph
Interface		RS-232, IEEE 488, LAN, USB Device, SB Host, Trig IN/OUT
Programming Language		SCPI Compatible with Agilent 34401A, 34410 & Fluke 45
Data Storage Capacity		512K

### STANDARD INCLUSIONS

- Digital Multimeter
- Test Leads
- Instruction Manual
- Calibration Certificate from NABL Accredited – as per ISO/IEC 17025 Laboratory



Manufactured by

**NAGMAN INSTRUMENTS & ELECTRONICS (P) LTD.**

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**AN ISO 9001:2015  
CERTIFIED COMPANY**

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