

6 1/2 DIGITAL PRECISION DIGITAL MULTIMETER

NAGMAN 6581

SALIENT FEATURES

6 1/2 Resolution

Equipped with a 3.5" Color Display Screen

Resolution Ratio 320*480

Customizable Display Interface

Bi-parameter Display

Conduct Remote Operation through 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 300 kHz.

Capacitance Measurement

User Settable Sensor Measurement

Maximum Current Measurement Capacity up to 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



FRONT PANEL



REAR PANEL

Typical Photo: Final Product look may vary

GENERAL 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

TECHNICAL SPECIFICATIONS

Model	N6581	
Display	3.5" color display (resolution 320*480)	
Digits	6 1/2	
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

- Basic Instrument with Battery
- Test Leads
- Carrying Case
- Conformance Certificate
- Instruction Manual

OPTIONAL

- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Manufactured by



NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED

AN ISO 9001:2015 CERTIFIED COMPANY

170/1a2, Chennai Bangalore Highway Road, Sembarambakkam, Chennai – 600 123. INDIA

Phone - Domestic Sales 044-6677 7024, 044-6677 7005 Email: mktgchennai@nagman.com

Phone - Export Sales +91-44-6677 7025. Email: exports@nagman.com

Since 1972

www.nagman.com



Specifications subject to change owing to continuous development. Contact us for latest Datasheet.

NIE/TDS/6581/01/26/00