

Siglent launches SDM4055A 5½-Digit Digital Multimeter

February 27, 2026

In the automatic production lines where speed drives profitability, the Digital Multimeter as core equipment in automated testing directly impacts system efficiency. On February 27, 2026, Siglent launches the **SDM4055A high-speed 5½-digit Digital multimeter**. With 220,000 counts, fast reading rate of 4,800 readings/s, 11 measurement functions, and a touchscreen with an intuitive interface, the SDM4055A not only improves test efficiency but also enhances overall production line performance in accuracy-driven automated environments.



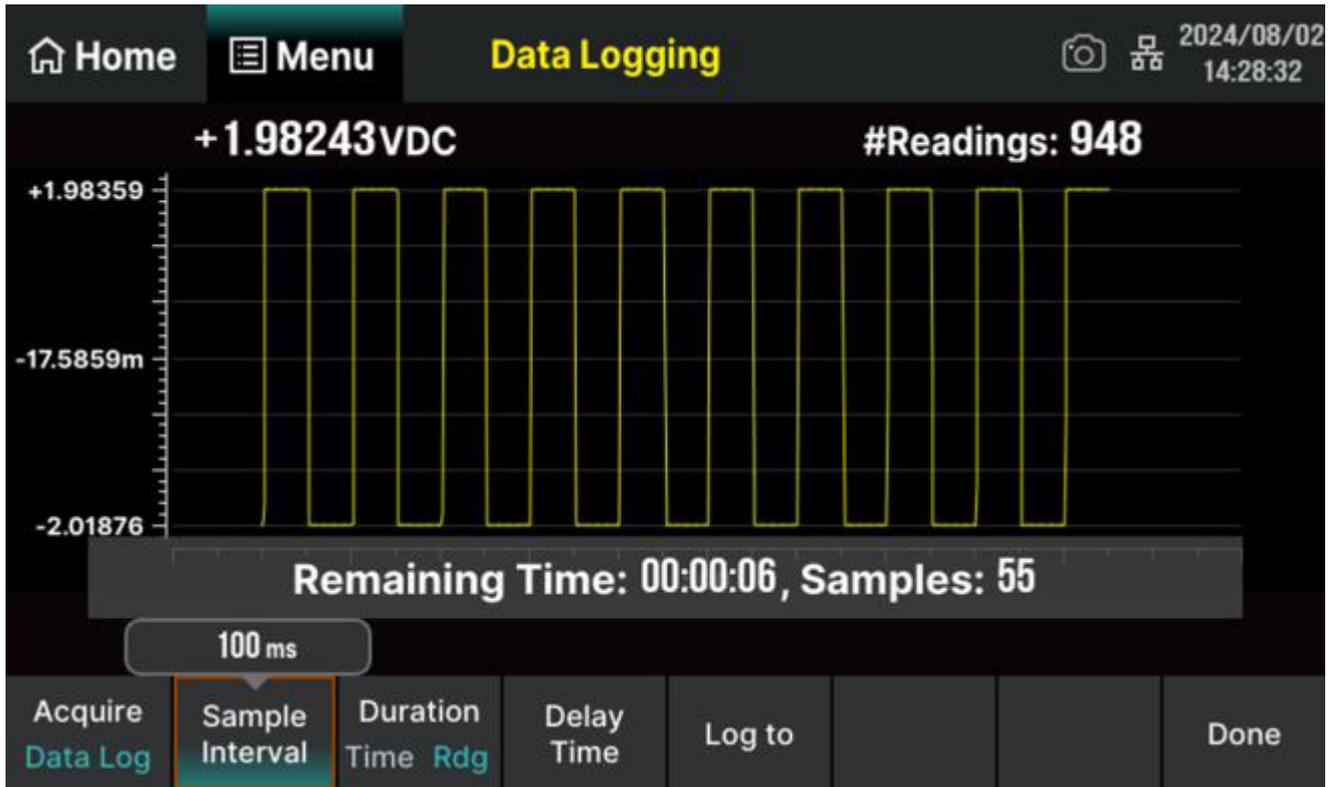
True 5½-digit precision

The SDM4055A delivers True 5½-digit precision with 5½-digit (220,000 counts) resolution, boasting a full-scale display range from -219,999 to +219,999. This exceptional precision ensures accurate capture of subtle current variations and large voltage fluctuations, while its high-speed measurement capability further elevates its performance: the device achieves a maximum reading rate of 4,800 readings/s and offers adjustable measurement speeds (fast/medium/slow). These features enable superior performance in high-speed data acquisition and micro-variation monitoring, making it ideal for applications requiring precise and rapid measurements.



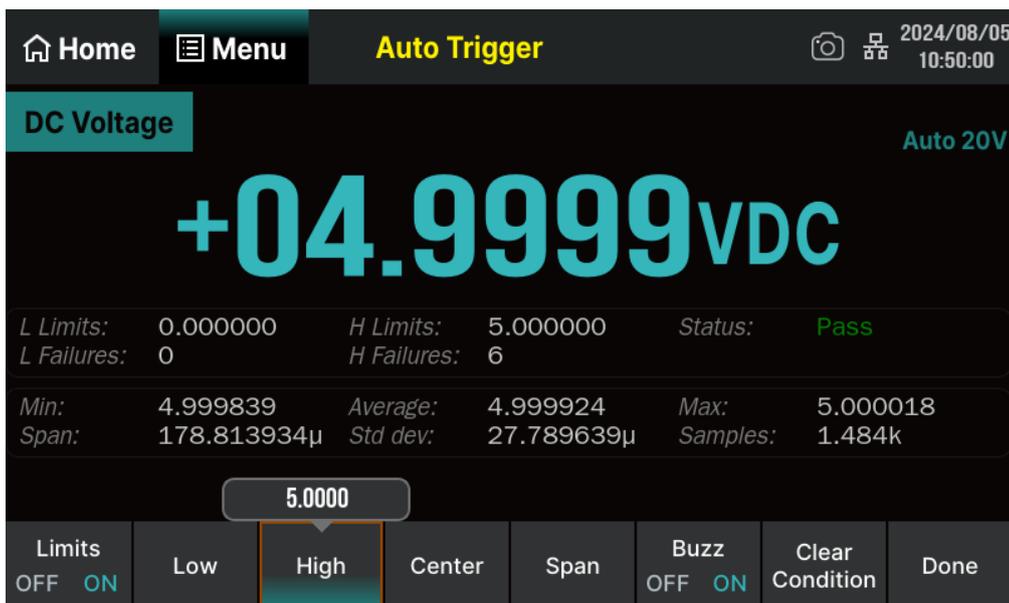
Two acquisition modes

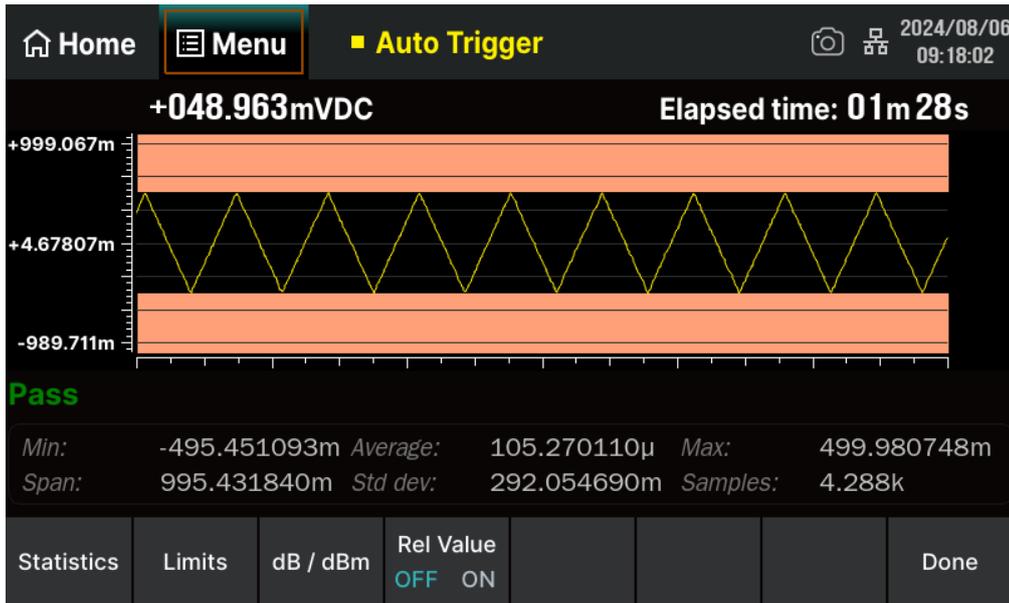
The SDM4055A offers two acquisition modes: Continuous Sampling Mode, where the SDM4055A adopts constant-rate sampling to enable real-time monitoring, and Data Logging Function, where the SDM4055A supports continuous data logging with a recording interval of 0.1s to 3600s, up to 2 million points when recorded to memory and 360 million points when recorded to file, with a maximum recording duration of 100 hours, making it ideal for long-term trend analysis.



Advanced Math Functions

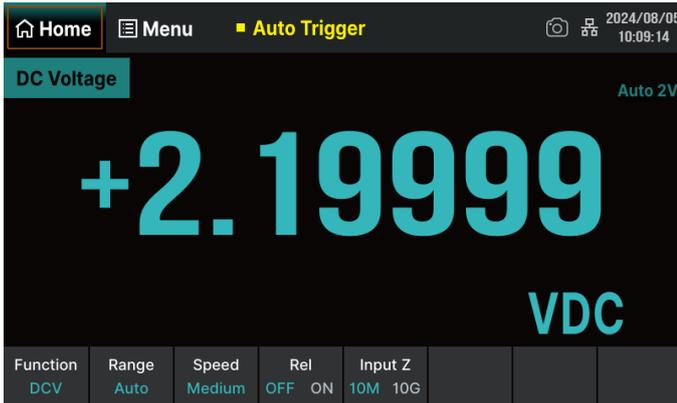
SDM4055A supports five operations: statistics, limits, dBm, dB, and relative measurements. It rapidly calculates max/min, average, peak-to-peak, standard deviation, and sample count, while enabling pass/fail testing via preset thresholds. Voltage-to-power conversion, dB-based relative measurements, and deviation analysis further enhance versatility.



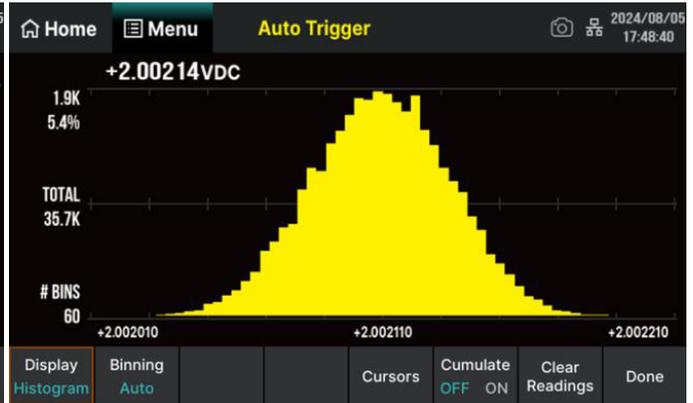


Four Display Modes

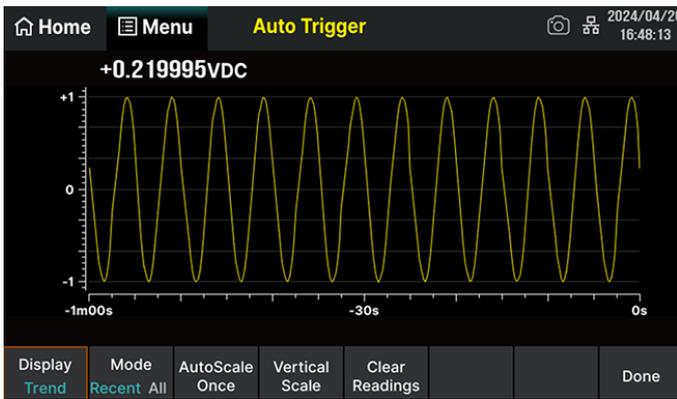
SDM4055A offers four modes: Numeric for instant clarity, Histogram for data distribution analysis, Trend Chart for dynamic data pattern observation and trend prediction, and Bar Chart for cross-condition comparisons and rapid analysis of variations and patterns under different conditions, empowering users to visualize and analyze data with deeper insights.



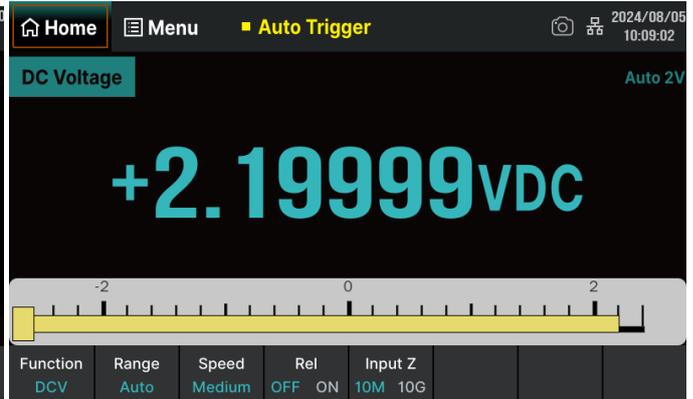
Digital display



Histogram



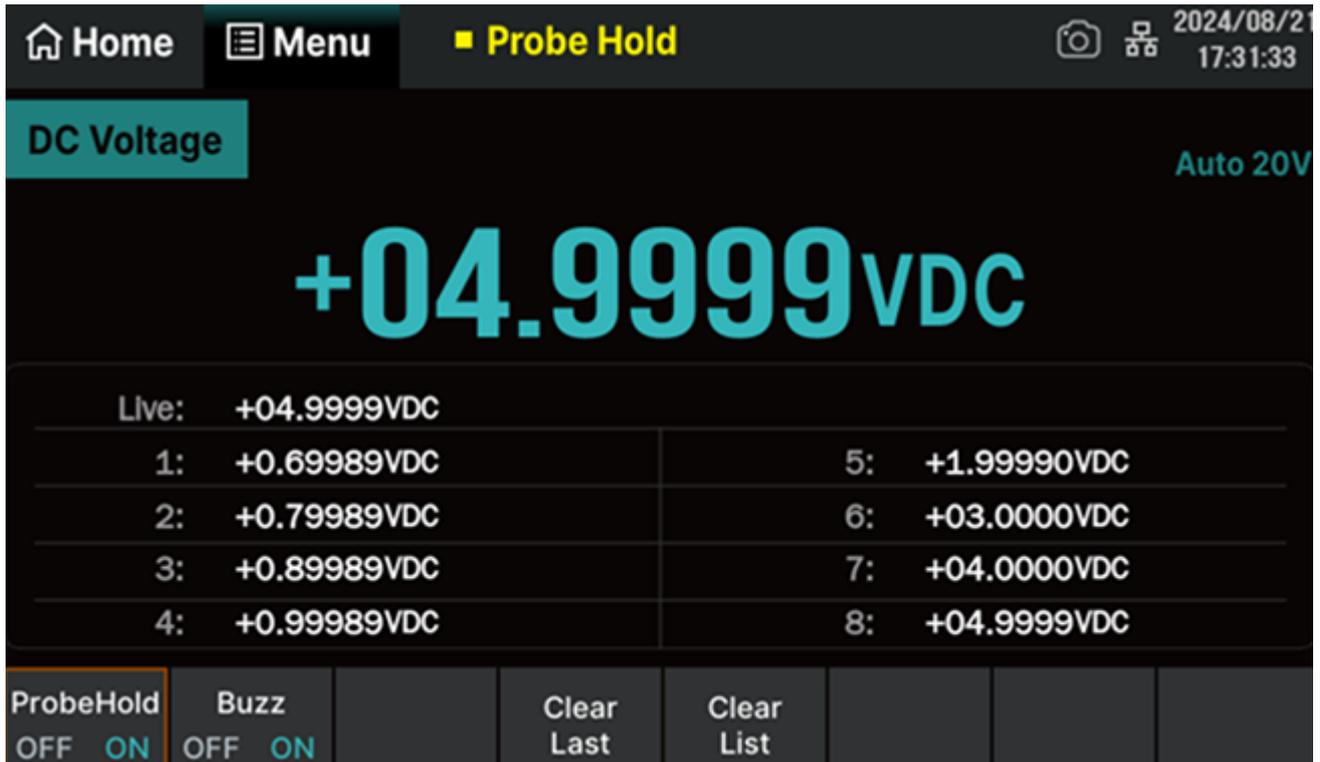
Trend chart



Bar chart

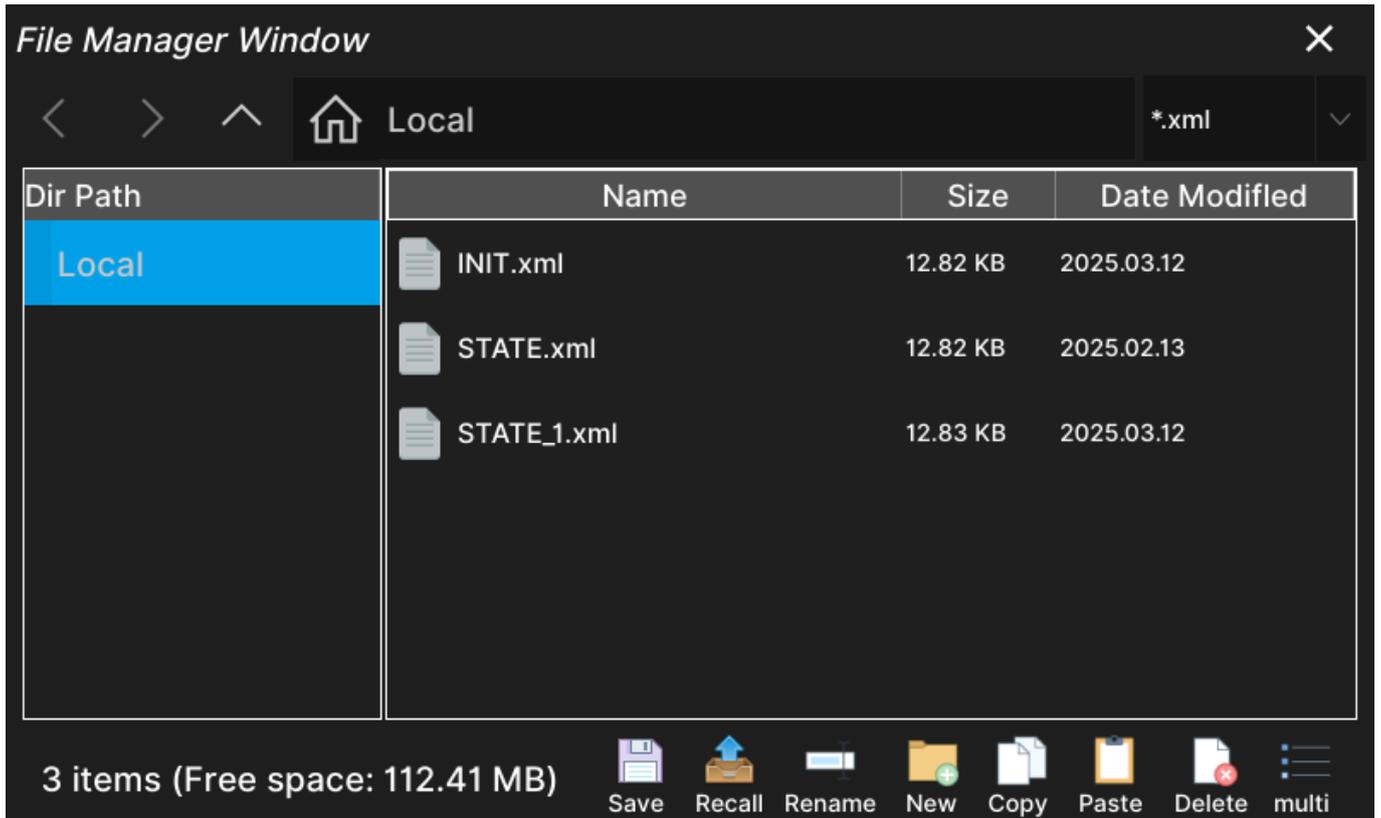
Probe Hold

After the readings stabilize, the multimeter buzzer sounds and displays the results, automatically retains the latest eight readings for users to compare and refer to. Users can access historical data at any time for in-depth analysis of equipment performance or parameter changes, and the displayed data can be cleared with a single click.



Storage & Recall

Users can easily manage instrument parameter files in the internal storage area and on external USB storage devices. It supports the storage of various types of files such as reading points, pictures, CSV/XML files. Users can perform operations like creating folders, saving screen captures, copying, renaming, and deleting files, enabling efficient data management.



Remote Control & Programming

SDM4055A integrates USB Host, USB Device, and LAN interfaces, with an optional USB-GPIB module. It supports standard SCPI remote control commands, PC-based software, and compatibility with the latest mainstream multimeter command sets. Its embedded web server enables direct remote control and programming via a browser, fulfilling diverse communication and automation needs.



PC software control

The SDM4055A high-speed 5½-digit multimeter strikes a balance between speed, accuracy, and stability. Whether applied in automated control system testing, power engineering, electronics manufacturing and repair, telecommunications and networking, or scientific research and education, the SDM4055A is dedicated to delivering a new measurement experience for engineers, enabling more precise and efficient testing.



North American Headquarters

SIGLENT Technologies NA
6557 Cochran Rd Solon, Ohio 44139
Tel: 440-398-5800
Toll Free: 877-515-5551
Fax: 440-399-1211
info@siglent.com
www.siglentamerica.com/

European Sales Offices

SIGLENT TECHNOLOGIES GERMANY GmbH
Staetzlinger Str. 70
86165 Augsburg, Germany
Tel: +49(0)-821-666 0 111 0
Fax: +49(0)-821-666 0 111 22
info-eu@siglent.com
www.siglenteu.com

Asian Headquarters

SIGLENT TECHNOLOGIES CO., LTD.
Blog No.4 & No.5, Antongda Industrial Zone,
3rd Liuxian Road, Bao'an District,
Shenzhen, 518101, China.
Tel: + 86 755 3661 5186
Fax: + 86 755 3359 1582
sales@siglent.com
www.siglent.com/ens