# DataSheet-2018.12

# **SIGLENT®**

# SDM3045X Digital Multimeter



Welectron.

SIGLENT TECHNOLOGIES CO.,LTD

# **Product Overview**

SDM3045X is a  $4\frac{1}{2}$  digit digital (60000 count) multimeter incorporating a dual-display and is especially well suited for the needs of high-precision, multifunction and automatic measurement.

# **Main Function**

# **Basic Measurement Function**

AC Voltage: True-RMS, 600 mV - 750 V

⚠ AC Current: True-RMS,60 mA - 10 A

 $\blacksquare$  2/4-Wire Resistance: 600 Ω - 100 MΩ

Capacitance: 2 nF - 10000 μF

✓ Continuity Test: Range is fixed at 2 kΩ

☑ Diode Test: Adjustable range is 0-4 V.

Frequency Measurement: 20 Hz - 500 KHz

Period Measurement: 2 μs - 0.05 s

Temperature: Support for TC and RTD sensor

Max, Min, Average, Standard Deviation, dBm/dB, Relative Measurement ,Pass/Fail Histogram, Trend Chart

# **User-friendly Design**

4.3" TFT-LCD, 480\*272

Support dual display, Chinese and English Menu Built-in front panel accessible help system File management (support for U-disc and local storage)

# **Application fields**

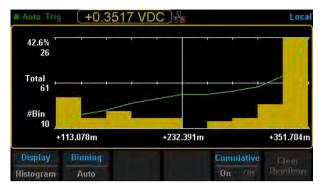
- Research Laboratory
- Development Laboratory
- Detection and Maintenance
- Calibration Laboratory
- Automatic Production Test

# **Main Features**

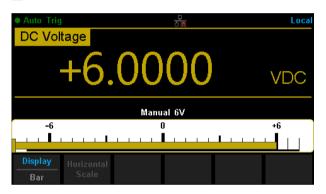
- Real 4½ digit (66000 count) readings resolution
- ▼ True-RMS AC Voltage and AC Current measuring
- 1 Gb NAND flash size, Mass storage configuration files and data files
- Built-in cold terminal compensation for thermocouple
- With easy, convenient and flexible PC software: EasyDMM
- Standard interface: USB Device, USB Host, LAN (Optioanal Accessories: USB-GPIB Adapter)
- USB & LAN remote interfaces support common SCPI command set. Compatible with other popular DMMs on the market.

# **Special Features**

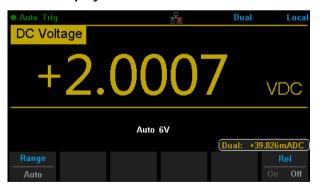
# Histogram



# Bar Chart



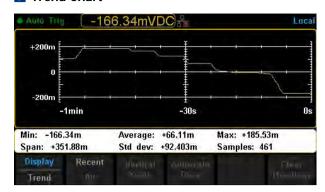
# Dual Display



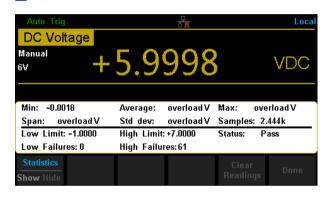
# □ dBm Hold Measurement



# Trend Chart



# Statistics



# Hold Measurement



# Interface



# **Specifications**

DC Characteristics Accuracy± ( % of Reading + count)[1]

| Function                  | Range <sup>[2]</sup>  | Test current or Load voltage | Resolution              | Accuracy<br>(one year;<br>23°C ±5°C) |
|---------------------------|-----------------------|------------------------------|-------------------------|--------------------------------------|
|                           | 600 mV                |                              | 0.01 mV                 | 0.02+ 6                              |
|                           | 6 V                   |                              | 0.0001 V                | 0.02+ 6                              |
| DC Voltage                | 60 V                  |                              | 0.001 V                 | 0.02+ 6                              |
|                           | 600 V                 |                              | 0.01 V                  | 0.02+ 6                              |
|                           | 1000 V <sup>[4]</sup> |                              | 0.1 V                   | 0.02+ 6                              |
|                           | 600 μΑ                | < 33 mV                      | 0.01 μΑ                 | 0.05+ 3                              |
|                           | 6 mA                  | < 330 mV                     | 0.0001 mA               | 0.05+ 3                              |
| DC Current                | 60 mA                 | < 0.05 V                     | 0.001 mA                | 0.05+3                               |
| DC Current                | 600 mA                | < 0.5 V                      | 0.01 mA                 | 0.12+ 6                              |
|                           | 6 A                   | < 0.33 V                     | 0.0001 A                | 0.20+ 5                              |
|                           | 10 A <sup>[5]</sup>   | < 0.6 V                      | 0.001 A                 | 0.25+ 4                              |
|                           | 600 Ω                 | 1 mA                         | 0.01 Ω                  | 0.08+ 6                              |
|                           | 6 ΚΩ                  | 1 00 μΑ                      | 0.0001 ΚΩ               | 0.04+ 6                              |
|                           | 60 ΚΩ                 | 10 μΑ                        | 0.001 ΚΩ                | 0.04+ 6                              |
| Resistance <sup>[3]</sup> | 600 ΚΩ                | 1 μΑ                         | 0.01 ΚΩ                 | 0.08+ 6                              |
|                           | 6 ΜΩ                  | 200 nA                       | $0.0001~\text{M}\Omega$ | 0.12+ 3                              |
|                           | 60 ΜΩ                 | 200 nA    10 MΩ              | 0.001 ΜΩ                | 0.85+3                               |
|                           | 100 ΜΩ                | 200 nA    10 MΩ              | 0.01 ΜΩ                 | 1.75+ 3                              |
| Diode Test <sup>[6]</sup> | 0-2 V                 | 1 mA                         | 0.0001 V                | 0.05+3                               |
|                           | 2-4 V                 | 1 mA                         | 0.0001 V                | 0.35+ 3                              |
| Continuity Test           | 2000 Ω                | 1 mA                         | 0.1 Ω                   | 0.05+3                               |

## Remarks:

- [1] Specifications are for 0.5 Hour warm-up, "Slow" measurement rate and calibration temperature 18°C 28°C .
  [2] 10% over range on all ranges except for DCV 1000 V, ACV 750 V, DCI 10 A and ACI 10 A.
  [3] Specifications are for 4-wire measure or 2-wire measure under "REF" operation. ±0.2 Ω of extra errors will be generated if perform 2-wire measure without "REF" operation.
- [4] Plus 0.02 mV of error per 1 V after the first ±500 VDC.
- [5] 30 seconds OFF after 30 seconds ON is recommend foe the continuous current that higher than DC 7 A or AC RMS 7 A.
  [6] Accuracy specifications are only for voltage measuring at input terminal. The typical value of current under measure is 1 mA. Voltage drop at diode junction may vary with current supply. Adjustable voltage range: 0-4 V.



AC Characteristics Accuracy± (% of Reading + count)<sup>1]</sup>

| Function                   | Range <sup>[2]</sup> | Frequency Range               | Resolution | Accuracy<br>(one year;<br>23°C ±5°C) |
|----------------------------|----------------------|-------------------------------|------------|--------------------------------------|
|                            |                      | 20 Hz – 45 Hz                 | 0.01 mV    | 2.0 + 20                             |
|                            |                      | 45 Hz – 100 Hz                | 0.01 mV    | 0.6 +10                              |
|                            | 600 mV               | 100 Hz – 20 KHz               | 0.01 mV    | 0.3 + 20                             |
|                            |                      | 20 KHz – 50 KHz               | 0.01 mV    | 2.0 + 40                             |
|                            |                      | 50 KHz –100 KHz               | 0.01 mV    | 3.0 + 10                             |
|                            |                      | 20 Hz – 45 Hz                 | 0.0001 V   | 2.0 + 20                             |
|                            |                      | 45 Hz – 100 Hz                | 0.0001 V   | 0.6 + 10                             |
|                            | 6 V                  | 100 Hz – 20 KHz               | 0.0001 V   | 0.8 + 20                             |
|                            |                      | 20 KHz – 50 KHz               | 0.0001 V   | 2.0 + 40                             |
|                            |                      | 50 KHz –100 KHz               | 0.0001 V   | 3.0 + 40                             |
|                            |                      | 20 Hz – 45 Hz                 | 0.001 V    | 2.0 + 20                             |
|                            |                      | 45 Hz – 100 Hz                | 0.001 V    | 0.6 + 10                             |
| True-RMS<br>AC Voltage [3] | 60 V                 | 100 Hz – 20 KHz               | 0.001 V    | 0.8 + 20                             |
| 7.0 Voltage                |                      | 20 KHz – 50 KHz               | 0.001 V    | 2.0 + 40                             |
|                            |                      | 50 KHz –100 KHz               | 0.001 V    | 3.0 + 40                             |
|                            |                      | 20 Hz – 45 Hz                 | 0.01 V     | 2.0 + 20                             |
|                            |                      | 45 Hz – 100 Hz                | 0.01 V     | 0.6 + 10                             |
|                            | 600 V                | 100 Hz – 20 KHz               | 0.01 V     | 0.8 + 20                             |
|                            |                      | 20 KHz – 50 KHz               | 0.01 V     | 2.0 + 40                             |
|                            |                      | 50 KHz –100 KHz               | 0.01 V     | 3.0 + 40                             |
|                            |                      | 20 Hz – 45 Hz                 | 0.01 V     | 2.0 + 20                             |
|                            |                      | 45 Hz – 100 Hz <sup>[4]</sup> | 0.01 V     | 0.6 + 10                             |
|                            | 750 V                | 100 Hz – 20 KHz               | 0.01 V     | 0.8 + 20                             |
|                            |                      | 20 KHz – 50 KHz               | 0.01 V     | 2.0 + 40                             |
|                            |                      | 50 KHz –100 KHz               | 0.01 V     | 3.0 + 40                             |
|                            |                      | 20 Hz – 45 Hz                 | 0.001 mA   | 2.0 + 20                             |
|                            | 60 mA                | 45 Hz – 2 KHz                 | 0.001 mA   | 0.5 + 20                             |
|                            |                      | 2 KHz – 10 KHz                | 0.001 mA   | 2.5 + 30                             |
| 6                          |                      | 20 Hz – 45 Hz                 | 0.01 mA    | 2.0 + 20                             |
|                            | 600 mA               | 45 Hz – 2 KHz                 | 0.01 mA    | 0.5 + 20                             |
| True-RMS                   |                      | 2 KHz – 10 KHz                | 0.01 mA    | 2.5 + 30                             |
| AC Current [5]             |                      | 20 Hz – 45 Hz                 | 0.0001 A   | 2.0 + 20                             |
|                            | 6 A                  | 45 Hz – 2 KHz                 | 0.0001 A   | 0.5 + 20                             |
|                            |                      | 2 KHz – 10 KHz                | 0.0001 A   | 2.5 + 20                             |
|                            |                      | 20 Hz – 45 Hz                 | 0.001 A    | 1.5 + 45                             |
|                            | 10 A <sup>[6]</sup>  | 45 Hz – 2 KHz                 | 0.001 A    | 0.5 + 35                             |
|                            |                      | 2 KHz – 10 KHz                | 0.001 A    | 2.5 + 25                             |

| Additional wave crest factor error ( not Sine ) [7] |                 |  |
|---|-----------------|--|
| Wave crest coefficient                              | Error (% Range) |  |
| 1-2   | 0.05            |  |
| 2-3   | 0.3             |  |

- Remarks:
  [1] Specifications are for 0.5 Hour warm-up, "Slow" measurement rate and calibration temperature 18°C 28°C.
  [2] 10% over range on all ranges except for DCV 1000 V, ACV 750 V, DCI 10 A and ACI 10 A.
  [3] Specifications are for amplitude of sine wave input > 5% of range. For inputs from 1% to 5% of range and <50 kHz, add 0.1% of range extra error. For 50 kHz to 100 kHz, add 0.1% of range extra error.
- [4] Plus 0.025 V of error per 1 V after the first ±400 VAC.
- [4] FILES OLOGICAL VOI EFFOR PET 1 V AREF THE HIPST #400 VAC.

  [5] Specifications are for sine wave input > 5% of range. 0.1% errors will be added when the range of input sine wave is 1% to 5%.

  [6] 30 seconds OFF after 30 seconds ON is recommend for the continuous current that higher than DC 7 A or AC RMS 7 A.

  [7] For inputs Frequency Range < 100 Hz

Frequency and Period Characteristic

Accuracy± (% of Reading + count)[1]

| Function   | Range             | Frequency Range  | Resolution | Accuracy<br>(one year;<br>23°C ±5°C) |
|--|-------------------|------------------|------------|--------------------------------------|
|  |                   | 20 Hz – 2 KHz    |            | 0.01+3                               |
| Frequency /Period 600 mV to 750 V <sup>[2]</sup> | 2 KHz – 20 KHz    |                  | 0.01+2     |                                      |
|  | 000 IIIV 10 730 V | 20 KHz – 200 KHz |            | 0.01+2                               |
|  |                   | 200 KHz –500 KHz |            | 0.01+2                               |

# Remarks:

- [1] Specifications are for 0.5 Hour warm-up.
- [2] Except for special marks, the AC input voltage is 5% to 110% of range when <100 kHz and 10% to 110% of range when >100 kHz. 750 V range is limited to 750 Vrms.The accuracy is 10 times % of Reading when the measurement range of AC voltage is in 600 mV range.

Capacitance Characteristic

Accuracy± (% of Reading + count)[1]

| Function    | Range <sup>[2]</sup> | Max Testing Current | Resolution | Accuracy<br>(one year;<br>23°C ±5°C) |
|-------------|----------------------|---------------------|------------|--------------------------------------|
|             | 2 nF                 | 10 μΑ               | 0.001 nF   | 3+10                                 |
|             | 20 nF                | 10 μΑ               | 0.01 nF    | 1+10                                 |
|             | 200 nF               | 100 μΑ              | 0.1 nF     | 1+9                                  |
| Capacitance | 2 μF                 | 100 μΑ              | 0.001 μF   | 1+10                                 |
|             | 20 μF                | 1 mA                | 0.01 μF    | 1+10                                 |
|             | 200 μF               | 1 mA                | 0.1 μF     | 1+9                                  |
|             | 10000 μF             | 1 mA                | 1 μF       | 2+50                                 |

- [1] Specifications are for 0.5 Hour warm-up and "REF" operation. Using of non-film capacitor may generate additional errors.
- [2] Specifications are for from 1% to 110% on 2 nF range and ranges from 10% to 110% on other ranges.

Temperature Characteristic

Accuracy± (% of Reading)[1]

| Function    | Probe<br>Type      | Probe<br>Model | Working<br>Temperature Range | Accuracy<br>(one year;<br>23°C ±5°C) | Temperature coefficient 0°C - 18°C 28°C - 5 0°C |
|-------------|--------------------|----------------|------------------------------|--------------------------------------|---|
|             | RTD <sup>[2]</sup> | a=0.00385      | -200°C - 660°C               | 0.16°C                               | 0.09°C  |
|             |                    | В              | 0°C - 1820°C                 | 0.76°C                               | 0.14°C  |
|             | TC <sup>[3]</sup>  | E              | -270°C - 1000°C              | 0.5°C                                | 0.02°C  |
|             |                    | J              | -210°C - 1200°C              | 0.5°C                                | 0.02°C  |
| Temperature |                    | K              | -270°C - 1370°C              | 0.5°C                                | 0.03°C  |
| 10.7        |                    | N              | -270°C - 1300°C              | 0.5°C                                | 0.04°C  |
|             |                    | R              | -50°C - 1760°C               | 0.5°C                                | 0.09°C  |
|             |                    | S              | -50°C - 1760°C               | 0.6°C                                | 0.11°C  |
|             |                    | Т              | -270°C - 400°C               | 0.5°C                                | 0.03°C  |

- [1] Specifications are for 0.5 Hour warm-up, not include probe error.
  [2] Specifications are for 4-wire measure or 2-wire measure under "REF" operation.
  [3] Built-in cold terminal compensation for thermocouple, accuracy is ±2°C.

# Measuring Method and other Characteristics

| DC Voltage   | l other Characteristics  |  |  |  |
|--|--|--|--|--|
| Do voltage   | 600 mV 10 MΩ or 10 GΩ selectable   |  |  |  |
| Input Resistance   | 6 V,60 V, 600 V and 1000 V Range $10 \text{ M}\Omega \pm 2$  | 2%   |  |  |
| Input Bias Current   | <90 pA, 25°C   |  |  |  |
| Input Protection   | 1000 V on all ranges   |  |  |  |
| CMRR   | 120 dB (For the 1 K $\Omega$ unbalanced resistance in L  | .O lead, max ±500 VDC)   |  |  |
| NMRR   | 60 dB at "slow" measurement rate   |  |  |  |
| Resistance   |  |  |  |  |
| Testing Method   | 4-wire resistance or 2-wire resistance selectable  |  |  |  |
| Input Protection   | 1000 V on all ranges   |  |  |  |
| DC Current   |  |  |  |  |
|  | 600 μA sampling voltage < 33 mV  |  |  |  |
| Chunt Docistor   | 6 mA sampling voltage < 0.33 V   |  |  |  |
| Shunt Resistor   | $1\Omega$ for 60 mA, 600 mA $1~\Omega$   |  |  |  |
|  | 0.01 Ω for 6 A, 10 A   |  |  |  |
| Input Drataction   | Rear panel: accessible 10 A,250 V fast-melt fuse   | e  |  |  |
| Input Protection   | Internal :12 A,250 V slow-melt fuse  |  |  |  |
| Continuity/Diode Test  |  |  |  |  |
| Measurement Method   | 1 mA ±5% constant-current source or open-circ  | uit voltage  |  |  |
| Beeper   | yes  |  |  |  |
| Continuity Threshold   | Adjustable   |  |  |  |
| Input Protection   | 1000 V   |  |  |  |
| True-RMS AC Voltage  |  |  |  |  |
| Measurement Method   | AC Coupled true RMS measure – up to 1000 V D   | DC bias are permitted on every range.  |  |  |
| Wave Crest Factor  | ≤3 at full scale   |  |  |  |
| Input Impedance  | $1 \text{ M}\Omega \pm 2\%$ in parallel with <100 pF on all range  | es   |  |  |
| AC Filter Bandwidth  | 20 Hz - 100 KHz  |  |  |  |
| CMRR   | 60 dB (For the 1 K $\Omega$ imbalance resistance among   | g Lo lead and <60 Hz, Max ±500 VDC)  |  |  |
| True-RMS AC Current  |  |  |  |  |
| Measurement Method   | DC Coupled to the fuse and shunt; AC Coupled t   | the True-RMS measurement (measures the AC components only)   |  |  |
| Wave Crest Factor  | ≤3 at full scale   |  |  |  |
| Max Input  | <10 A (include DC component)   |  |  |  |
| Shunt Resistor   | 1 $\Omega$ for 60 mA, 600 mA 1 $\Omega$ ; 0.01 $\Omega$ for 6 A, 10 A  |  |  |  |
|  | Rear panel: accessible 10 A,250 V fast-melt fuse   |  |  |  |
| Input Protection   | Internal :12 A,250 V slow-melt fuse  |  |  |  |
|  |  |  |  |  |
| Frequency/Period   |  |  |  |  |
| Frequency/Period  Measurement Method   | Reciprocal-counting technique, AC Coupled input  | t, AC voltage or AC current measurement function   |  |  |
|  |  | it, AC voltage or AC current measurement function<br>en measuring low voltage or low frequency signal.   |  |  |
| Measurement Method<br>Measure Attentions   | errors are leaded into all frequency counters who  | •  |  |  |
| Measurement Method   | errors are leaded into all frequency counters who  | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions Capacitance Measurin Measurement Method  | errors are leaded into all frequency counters who<br>g<br>Measure the rate of change of voltage generated  | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions Capacitance Measurin   | errors are leaded into all frequency counters who  | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  | errors are leaded into all frequency counters who  Measure the rate of change of voltage generated  2-wire  1000 V on all ranges   | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin  | errors are leaded into all frequency counters whong  Measure the rate of change of voltage generated 2-wire  1000 V on all ranges  | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin Measurement Method   | errors are leaded into all frequency counters who  Measure the rate of change of voltage generated  2-wire  1000 V on all ranges   | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection Temperature Measurin Measurement Method Trigger and Memory                                 | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire  1000 V on all ranges  ng  Support for TC and RTD types of sensor  | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin Measurement Method  Trigger and Memory Samples/Trigger               | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire  1000 V on all ranges  Support for TC and RTD types of sensor  1 - 10000   | nen measuring low voltage or low frequency signal.   |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection Temperature Measurin Measurement Method Trigger and Memory                                 | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire  1000 V on all ranges  ng  Support for TC and RTD types of sensor  | then measuring low voltage or low frequency signal.  d during the current flowing the capacitance  TTL compatible (High level when left input terminal is hanging  |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin Measurement Method  Trigger and Memory Samples/Trigger Trigger Delay | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire 1000 V on all ranges  Support for TC and RTD types of sensor  1 - 10000 6 ms - 10000 ms optional Input Level   | then measuring low voltage or low frequency signal.  d during the current flowing the capacitance  TTL compatible (High level when left input terminal is hanging in the air)                                |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin Measurement Method  Trigger and Memory Samples/Trigger               | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire 1000 V on all ranges  ng  Support for TC and RTD types of sensor  1 - 10000 6 ms - 10000 ms optional  Input Level  Trigger Condition                         | then measuring low voltage or low frequency signal.  d during the current flowing the capacitance  TTL compatible (High level when left input terminal is hanging in the air)  Rising and Falling selectable |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin Measurement Method  Trigger and Memory Samples/Trigger Trigger Delay | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire 1000 V on all ranges  ng  Support for TC and RTD types of sensor  1 - 10000 6 ms - 10000 ms optional Input Level  Trigger Condition Input Impedance          | TTL compatible (High level when left input terminal is hanging in the air) Rising and Falling selectable ≥20 KΩ//400 pF ,DC-coupled  |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin Measurement Method  Trigger and Memory Samples/Trigger Trigger Delay | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire 1000 V on all ranges  The support for TC and RTD types of sensor  1 - 10000 6 ms - 10000 ms optional Input Level Trigger Condition Input Impedance Min Pulse | TTL compatible (High level when left input terminal is hanging in the air) Rising and Falling selectable ≥20 KΩ//400 pF ,DC-coupled 500 us   |  |  |
| Measurement Method Measure Attentions  Capacitance Measurin Measurement Method Connection Type Input Protection  Temperature Measurin Measurement Method  Trigger and Memory Samples/Trigger Trigger Delay | errors are leaded into all frequency counters wholg  Measure the rate of change of voltage generated 2-wire 1000 V on all ranges  ng  Support for TC and RTD types of sensor  1 - 10000 6 ms - 10000 ms optional Input Level  Trigger Condition Input Impedance          | TTL compatible (High level when left input terminal is hanging in the air) Rising and Falling selectable ≥20 KΩ//400 pF ,DC-coupled  |  |  |

| History Records              |   |
|------------------------------|---|
| Volatile Memory              | 10 K reading of history records   |
| Nonvolatile Memory           | 1 Gb Nand Flash, Mass storage configuration files and data files, Support U-disk external storage |
| Math Functions               |   |
| Min/Max/Average, dBm, dB, Pa | ss/Fail. Relative. Standard deviation. Hold. histogram. Trend chart. Bar chart                    |

# **General Specifications**

| Power Supply                  |  |
|-------------------------------|--|
| AC 100 V - 120 V              | 45 Hz - 66 Hz  |
| AC 200 V - 240 V              | 45 Hz - 66 Hz  |
| Consumption                   | 20VA max   |
| Mechanism                     |  |
| Dimension                     | 293.75 mm×260.27 mm×107.21 mm  |
| Weight                        | 3.76 Kg  |
| Other Characteristics         |  |
| Display Screen                | 4.3" TFT-LCD with resolution 480*272                                       |
|                               | Full accuracy from 0°C to 50°C , 80% RH and 40°C , non condensing          |
| Operation Environment         | Storage Temperature: -20°C -70°C   |
| Operation Environment         | Shock and Vibration: conforming to MIL-T-28800E, , 5 level (only foe sine) |
|                               | Height above sea level: up to 3000 meters                                  |
| electromagnetic compatibility | Conforming to EMC (2004/108/EC) and EN 61326-1:2013                        |
| Safety                        | Conforming to EN61010-1:2010 and low voltage instructions (2006/95/EC)     |
| Remote Interface              | 10/100 Mbit LAN, USB2.0 Full Speed Device and Host                         |
| Programmer Language           | Standard SCPI, compatible with commands of main stream multimeters         |
| Warm Up Time                  | 30 minutes   |

# **Purchase Information**

| Standard Accessories              |          |
|-----------------------------------|----------|
| Power Cord -1                     |          |
| USB Cable -1                      |          |
| Quick Start -1                    |          |
| Calibration Certificate -1        |          |
| Test Leads and Alligator Clips -2 |          |
| Optional Accessories              |          |
| USB-GPIB adapter                  | USB-GPIB |



# About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of test & measurement instruments.

SIGLENT began to research and develop the Digital Oscilloscope independently in 2002. After a decade of development products have included digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, digital multimeters, DC power supplies, spectrum analyzers, and other general purpose test instrumentation. Since SIGLENTs first oscilloscope, the ADS 7000 series produced in 2005, SIGLENT has maintained the highest annual growth rate and has been the fastest developing DSO manufacturer over the past 10 years. Nowadays, SIGLENT Technologies is the leading manufacturer of oscilloscopes by shipments in China.

# **Distributor:**

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