








| Function | |  |  |  |  |  |  |  |
|--|--|---|--|---|--|---|--|--|
| | | GPS LTD 3065X | KEYSIGHT 34461A | TEK Keithley 2000 | RIGOL DM3068 | GWINSTEK GDM8261A | HANTEK 3065B | Time 5065 |
| Resolution Accuracy | | 6 ^{1/2} | 6 ^{1/2} | 6 ^{1/2} | 6 ^{1/2} | 6 ^{1/2} | 6 ^{1/2} | 6 ^{1/2} |
| DCV Basic Accuracy | | 35 PPM | 35 PPM | 30 PPM | 35 PPM | 35 PPM | 35 PPM | 35 PPM |
| Measurement Types | | DC Voltage, AC Voltage, DC Current, AC Current, 2-wire Resistance, 4-wire Resistance, Diode, Continuity, Frequency, Period, Temperature | DC Voltage, AC Voltage, DC Current, AC Current, 2-wire Resistance, 4-wire Resistance, Diode, Capacitance, Continuity, Frequency, Period, Temperature | DC Voltage, AC Voltage, DC Current, AC Current, 2-wire Resistance, 4-wire Resistance, Diode, Continuity, Frequency, Period, Temperature | DC Voltage, AC Voltage, DC Current, AC Current, 2-wire Resistance, 4-wire Resistance, Capacitance, Diode, Continuity, Frequency, Period, Temperature | DC Voltage, AC Voltage, DC Current, AC Current, 2-wire Resistance, 4-wire Resistance, Diode, Continuity, Frequency, Period, Temperature | DC Voltage, AC Voltage, DC current, AC current, 2 line resistance, 4 line resistance, capacitance, diode, connectivity, frequency, period, | DC Voltage, AC Voltage, DC current, AC current, 2 line resistance, 4 line resistance, capacitance, diode, connectivity, frequency, period, |
| Measurement Function and Range | DCV | 200 mV - 1000 V | 100 mV - 1000 V | 100 mV - 1000 V | 200 mV - 1000 V | 100 mV - 1000 V | 100 mV - 1000 V | 100 mV - 1000 V |
| | DCI | 200 uA - 10 A | 100 uA - 10 A | 10 mA - 3 A | 200 uA - 10 A | 100 uA - 10 A | 100 uA - 10 A | 100 uA - 10 A |
| | ACV | 200 mV - 750 V | 100 mV - 1000 V | 100 mV - 750 V | 200 mV - 750 V | 100 mV - 750 V | 100 mV - 750 V | 100 mV - 750 V |
| | ACI | 200 uA - 10 A | 100 uA - 10 A | 1 A - 3 A | 200 uA - 10 A | 1 mA - 10 A | 100 uA - 10 A | 100 uA - 10 A |
| | Ohm | 200 Ω - 100 MΩ | 200 Ω - 100 MΩ | 200 Ω - 100 MΩ | 200 Ω - 100 MΩ | 200 Ω - 100 MΩ | 100 Ω - 100 MΩ | 100 Ω - 100 MΩ |
| | Capacitance | 2 nF - 100 mF | 1 nF - 100 mF | N/A | 2 nF - 100 mF | N/A | 1 nF - 100 uF | N/A |
| | Diode | 0 - 4 V | 0 - 5 V | 0 - 10 V | 0 - 2 V | 0 - 1 V | 0 - 5 V | 0 - 1 V |
| | Continuity | 2 KΩ | 1 KΩ | 1 KΩ | 2 KΩ | 1 KΩ | 1 KΩ | 1000.00 KΩ |
| | Frequency/period | 3 Hz - 1 MHz | 3 Hz - 300 KHz | 3 Hz - 500 KHz | 3 Hz - 1 MHz | 3 Hz - 300 KHz | 3 Hz - 300 KHz | 3 Hz - 300 KHz |
| | Temperature | RTD, Thermocouple | RTD/PT100, Thermistor | J, K, T type Thermocouple | RTD, Thermocouple | RTD, Thermocouple | RTD, Thermocouple | RTD, Thermocouple |
| Basic Accuracy (1 year)± (% reading + % range) | DCV | 0.0035 + 0.0008 | 0.0035 + 0.0005 | 0.0030 + 0.0005 | 0.0035 + 0.0006 | 0.0035 + 0.0005 | 0.0050 + 0.0035 | 0.0050 + 0.0035 |
| | DCI | 0.050 + 0.003 | 0.050 + 0.005 | 0.050 + 0.009 | 0.050 + 0.003 | 0.050 + 0.005 | 0.050+0.025 | 0.050+0.02 |
| | ACV | 0.06+ 0.03 | 0.06 + 0.03 | 0.06 + 0.03 | 0.06+0.08 | 0.06+ 0.04 | 0.06+ 0.04 | 0.06+ 0.08 |
| | ACI | 0.10 + 0.04 | 0.10 + 0.04 | 0.10 + 0.04 | 0.10 + 0.04 | 0.10 + 0.04 | 0.10 + 0.04 | 0.10 + 0.04 |
| | Ohm | 0.010 + 0.001 | 0.010 + 0.001 | 0.010 + 0.001 | 0.010 + 0.001 | 0.010 + 0.001 | 0.010+0.004 | 0.010+0.005 |
| | Capacitance | 1 + 0.3 | 0.4 + 0.1 | N/A | 1 + 0.3 | N/A | 0.50+0.50 | N/A |
| | Diode | 0.010 + 0.020 | 0.010 + 0.030 | 0.040 + 0.007 | 0.010 + 0.020 | 0.010 + 0.020 | 0.010+0.030 | 0.010+0.02 |
| | Continuity | 0.010 + 0.020 | 0.010 + 0.030 | 0.120 + 0.100 | 0.010 + 0.020 | 0.010 + 0.030 | 0.010 + 0.030 | 0.010 + 0.030 |
| | Frequency/period | 0.02 | 0.012 | 0.01 | 0.02 | 0.01 | 0.1 | 0.1 |
| | Mathematical Measurement | Max, Min, Average, Standard Deviation, dBm/dB, Relative Measurement, Histogram, Bar Chart, Trend Chart, Limit | Max, Min, Average, Standard Deviation, dBm/dB, Bar Chart, Histogram, Trend Chart, Limit, Sweep, Count | Max, Min, Average, Standard Deviation, Relative Measurement, dB/dBm, Limit | Max, Min, Average, Standard Deviation, Relative Measurement, Histogram, Trend Chart, dBm/dB, Limit | Max, Min, Average, Standard Deviation, Relative Measurement, dB/dBm, Limit, MX+B, 1/X | Max, Min, Average, Standard Deviation, Relative Measurement, dB/dBm, Limit, MX+B, 1/X | Max, Min, Average, Standard Deviation, Relative Measurement, dB/dBm, Limit, MX+B, 1/X |
| Volatile memory | 10 K measurement data | 10 K measurement data | N/A | 512 K historical data | N/A | N/A | N/A | |
| Non-Volatile Storage | 1 Gb NAND flash | 80 Mb NAND flash | N/A | 10 sets of historical data, 5 groups of sensor data, 10 sets of instrument | Record and store 2-9999 times of data | Record and store 2-9999 times of data | Record and store 2-9999 times of data | |
| Dual Display | Support | Support | N/A | Support | Support | Support | Support | |
| Scanner card (option) | Support | N/A | Support | N/A | Support | n/A | n/A | |
| Interfaces | USB Device, USB Host, LAN, GPIB (option) | USB Device, USB Host, LAN, GPIB (option) | GPIB,RS-232C | USB Device, USB Host, LAN, RS-232C, GPIB (option) | RS-232C, USB, Digital I/O, LAN (option), GPIB | RS-232C, USB, LAN | RS-232C, USB, LAN | |
| Display | 4.3 inch, 480*272 | 4.3 inch, 480*272 | VFD color display | 256 × 64 dot matrix LCD display | VFD color display | 4.3 inch 64K LCD, | VFD color display | |