



GPS-8145 80,000 Counts Dual Display Digital Multimeter

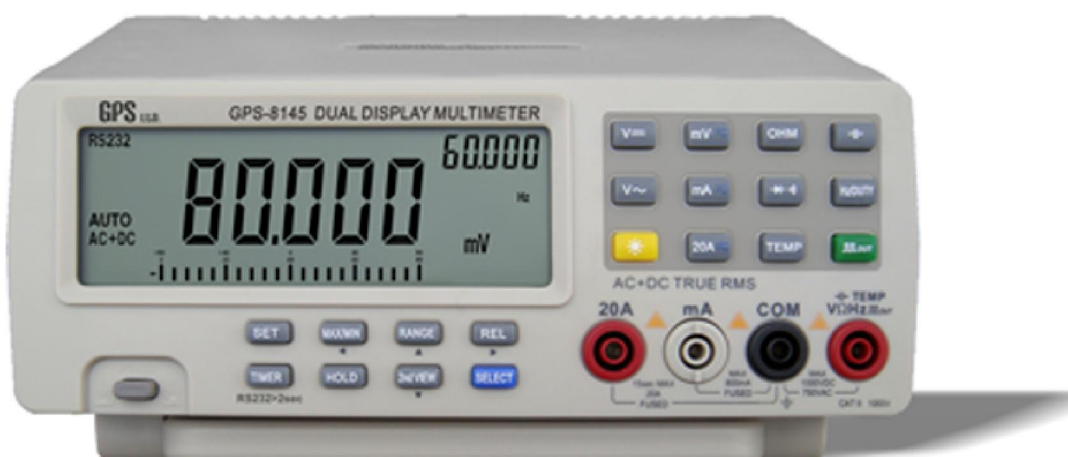
GPS-8145 is an intelligent and multi-functional device for various measurements. It features high quality, high accuracy, high reliability and special high frequency measurement at a low cost.

It provides an 80,000 count meter with a large dual display LCD, which simultaneously shows two electrical characteristics in a measurement.

GPS-8145 carries an extensive list of measurement items- DC Voltage/Current, AC Voltage/Current with True-RMS, Resistance, Capacitance, Frequency, Continuity with Beeper, Diode Test, dBm, Temperature and also square wave output.

The unit is equipped with RS232 interface and relevant software, which allows easy connections for PC to PC control.

The meter is in compliance with IEC 6010 CAT II 1000V and CAT III 600V high voltage standards



Features:

- ▶ Multi-display: primary 80000 counts, secondary 80000 counts, bar graph 23 segments
- ▶ 50 measuring functions, with basic DCV, ACV, DCA, ACA, Ω , CAP, Hz, TEMP, diode and Continuity measuring function, etc.
- ▶ 18 types of frequency, frequency up to 80MHz, 1800 waveform outputs, 0.1%~99% duty cycle.
- ▶ Simultaneous measure (AC+DC), (AC+Hz), (DC+dBm), (dBm+Hz), (Hz+Duty), (\square + \square).
- ▶ Auto data update and refresh, auto data hold, auto peak hold.
- ▶ 36-hour dynamic record: MAG, MIN, AVG, MAX-MIN (REL \square), (REL%), setting upper & lower limit, timing measurement
- ▶ AC measuring adopts highly accurate true RMS measurement, with testing frequency bandwidth and AC+DC measuring, capable of accurate true RMS measuring of any waveforms in AC range
- ▶ RS-232 interface



GPS-8145

80,000 Counts Dual Display Digital Multimeter

Specifications:

| DC Voltage | | | | | | | | |
|------------------------|--|------------|---------------|---------------|----------------|---------------|-----------|--|
| Range | 80mV | 800mV | 8V | 80V | 800V | 1000V | | |
| Resolution | 1μV | 10μV | 0.1mV | 1mV | 10mV | 1V | | |
| Accuracy | ±(3%rdg+10) | | ±(0.05%rdg+5) | | ±(0.08%rdg+10) | | | |
| Input Impedance | > 1000MΩ | | | 10MΩ | | | | |
| AC Voltage (True-RMS) | | | | | | | | |
| Range | 80mV | 800mV | 8V | 80V | 750V | | | |
| Resolution | 1μV | 10μV | 0.1mV | 1mV | 10mV | | | |
| Accuracy | ±(0.8%rdg+50) | | | | | | | |
| Input Impedance | > 1000MΩ | | | 10MΩ | | | | |
| ACA and DCA | | | | | | | | |
| Range | 80mA | 800mA | 8A | 20A | | | | |
| Resolution | 1μA | 10μA | 0.1mA | 1mA | | | | |
| Accuracy | ±(0.2%rdg+10) | | | ±(0.5%rdg+10) | | | | |
| Remark | Fuse: F750mA/250V F13A/250V, Voltage drop:≤800mV, Max. Input current: 20A (up to 15 sec.) | | | | | | | |
| Resistance | | | | | | | | |
| Range | 800Ω | 8k Ω | 80k Ω | 800k Ω | 8M Ω | 60M Ω | | |
| Resolution | 0.01 Ω | 0.1 Ω | 1 Ω | 10 Ω | 100 Ω | 1K Ω | | |
| Accuracy | ±(0.3%rdg+10) | | ±(0.3%rdg+5) | | | ±(2.5%rdg+10) | | |
| Remark | Overload protection : 250 Vrms , Continuity beeper: Approx. 3KHZ | | | | | | | |
| Frequency (Hz) | | | | | | | | |
| Range | 999.99 Hz | 9.9999 KHZ | 99.999 KHZ | 999.99 KHZ | 6.0000 MHZ | 10 MHZ | 100.0 MHZ | |
| Resolution | 0.01HZ | 0.1 HZ | 1 HZ | 10 HZ | 100 HZ | 1KHZ | 10 KHZ | |
| Accuracy | ±(0.5%rdg+5) | | | | ±(0.1%rdg+5) | | | |
| Remark | Overload protection : 250 Vrms , Sensitivity: 0.7 Vrms | | | | | | | |
| Capacitance | | | | | | | | |
| Range | 1nF | 10nF | 100nF | 1μF | 10μF | 100μF | | |
| Resolution | 1pF | 10pF | 100pF | 1nF | 10nF | 100nF | | |
| Accuracy | ±(2.5%rdg+50) | | | | | | | |
| Remark | Overload protection : 250 Vrms | | | | | | | |
| Diode | | | | | | | | |
| Range | 3.0000 V | | | | | | | |
| Resolution | 0.0001 V | | | | | | | |
| Accuracy | ±(3.0%rdg+5) | | | | | | | |
| Remark | Diode positive voltage drop , Overload protection : 250 Vrms | | | | | | | |
| dBm | | | | | | | | |
| Range | -80.00 dBm ~ +80.00 dBm | | | | | | | |
| Resolution | 0.01 dBm | | | | | | | |
| Accuracy | ±1.0% rdg | | | | | | | |
| Square Wave Output | | | | | | | | |
| Voltage amplitude | Approx. 3V | | | | | | | |
| Frequency | 0.5Hz ~ 5000 Hz | | | | | | | |
| Duty cycle | 1% ~ 99% | | | | | | | |
| Temperature | | | | | | | | |
| Range | -50°C ~ 1300°C | | | | | | | |
| Resolution | 0.1 °C | | | | | | | |
| Accuracy | ±(1.5%rdg+10) | | | | | | | |
| Remark | K-type thermocouple, Overload protection : 250 Vrms | | | | | | | |
| General Specification: | | | | | | | | |
| Input Voltage | AC 110/220V selectable, 50/60Hz | | | | | | | |
| Operation environment | 0°C ~ 50°C, ≤ 75% RH | | | | | | | |
| Safety/Compliance | IEC61010 CAT II 1000V and CAT III 600V | | | | | | | |
| Dimension | 260 x 220 x 82 mm | | | | | | | |
| Weight | Approx. 1.4 Kg | | | | | | | |
| Standard accessories | Test lead, K-type thermocouple, RS232 package, user-manual | | | | | | | |