



Datasheet Stock No. 1993847, 1995010, 1995011, 1995012, 1995013, 1995014, 1995015, 1995017

RS PRO S2 Digital Multimeter



Feature:

- HVAC Application
- 6,000 counts digital and 60 segments analog display
- Large white LED backlight display
- True RMS measurements on ACV/ACA
- 0.5% DCV accuracy
- AC/DC mA & µA Function
- Capacitance Measurement
- Frequency measurement on ACV
- Diode Test
- °C/°F Temperature Function
- High Frequency Rejection
- LoZ with Automatic AC/DC voltage selection
- Data Logging / Manual Save up to 4000 records
- Bluetooth connection with RS PRO connect APP
- Auto Ranging
- Smart Hold
- Min/Max Hold
- Relative Function
- Auto Power Off (can be disabled)
- High Energy Fuse
- Battery Capacity indication in segments
- Included Holster with Probe Holder, Tilt Stand and Magnetic sticker
- CAT IV 600V/ CATIII 1000V Safety Standards

Specifications: (All at 23°C±5°C,≦80% R.H.)

DC Voltage

Range	Resolution	Accuracy
6.000V	0.001V	±(0.5%+2D)
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	

Input Impedance: $10M\Omega$

Overload Protection: AC/DC 1000V

DC mV

Range	Resolution	Accuracy
600.0mV	0.1mV	±(0.5%+5D)

Input Impedance: $10M\Omega$

Overload Protection: AC/DC 1000V

AC Voltage

Range	Resolution	Accuracy
600.0mV	0.1mV	±(1.0%+5D)
6.000V	0.001V	±(1.0%+3D)
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	

Frequency Response: 45Hz to 500HzInput Impedance: $10M\Omega$ // less than 100pFOverload Protection: AC/DC 1000V

Lo-Z Voltage

Range	Resolution	Accuracy
600.0V DC & AC	0.1V	
1000V DC & AC	1V	±(2.0%+3D)

Frequency Response: 45Hz to 500Hz

Input Impedance: less than $3k\Omega$

Overload Protection: AC/DC 1000V

DC Current

Range	Resolution	Accuracy
600.0µA	0.1µA	±(1.0%+5D)
6.000mA	0.001mA	
60.00mA	0.01mA	±(1.0%+3D)
400.0mA	0.1mA	

Overload Protection: Fuse AC/DC 440mA

AC Current

Range	Resolution	Accuracy
600.0µA	0.1µA	±(1.5%+5D)
6.000mA	0.001mA	
60.00mA	0.01mA	±(1.5%+3D)
400.0mA	0.1mA	

Frequency Response: 45Hz to 500Hz

Overload Protection: Fuse AC/DC 440mA

HFR (High Frequency Rejection)

- Available for ACV only.
- Add ± 4% to specified accuracy of each function and each range for 45Hz to 200Hz.
- Accuracy is unspecified for > 200Hz.

Cut-off Frequency (-3dB): 800Hz

Frequency

Range	Resolution	Accuracy
100.00Hz	0.01Hz	
1000.0Hz	0.1Hz	
10.000kHz	0.001kHz	±(0.1%+2D)
100.00kHz	0.01kHz	

ACV Minimum Sensitivity: > 5V for 1Hz ~ 10kHz

>20V for 10kHz $\sim 50kHz$

unspecified for > 50kHz

Overload Protection: AC/DC 1000V

Resistance

Range	Resolution	Accuracy
600.0Ω	0.1Ω	±(0.9%+5D)
6.000kΩ	0.001kΩ	
60.00kΩ	0.01kΩ	±(0.9%+2D)
600.0kΩ	0.1kΩ	
6.000ΜΩ	0.001MΩ	
40.00ΜΩ	0.01ΜΩ	±(1.5%+5D)

• There is a little rolling less than ±50 digits when measuring > 10.00 M Ω .

Overload Protection: AC/DC 1000V

Continuity

Range	Resolution	Accuracy
600.0Ω	0.1Ω	±(0.9%+5D)

Continuity: Built-in buzzer sounds when measured resistance is less than 20Ω and sounds off when measured resistance is more than 200Ω , between 20Ω to 200Ω the buzzer maybe sound or off either. **Continuity Indicator:** 2.7kHz Tone Buzzer

Response Time of Buzzer: < 100msec.

Overload Protection: AC/DC 1000V

Diode

Range	Resolution	Accuracy
1.500V	0.001V	±(0.9%+5D)

Open Circuit Voltage: Approx. 1.8V

Overload Protection: AC/DC 1000V

Capacitance

Range	Resolution	Accuracy
1.000µF	0.001µF	±(1.9%+5D)
10.00µF	0.01µF	±(1.9%+2D)
100.0µF	0.1µF	
1.000mF	0.001mF	
10.00mF	0.01mF	

Overload Protection: AC/DC 1000V

Temperature

Range	Resolution	Accuracy
-40.0°C ~ 400.0°C	0.1°C	±(1.0%+20D)
-40.0°F ~ 752.0°F	0.1°F	±(1.0%+36D)

· Accuracy is available with backlight off. The heat of backlight may deviate the measurement.

• The accuracy does not include the accuracy of the thermocouple probe.

 Accuracy specification assumes surrounding temperature stable to ±1°C. For surrounding temperature changes of ± 2°C, rated accuracy applies after 2 hours.

Overload Protection: AC/DC 1000V

VoltSeek

Voltage Range of High Sensitivity: 80V ~ 1000V (At the top edge of the meter) Voltage Range of High Sensitivity: 160V ~ 1000V (At the top edge of the meter)

General

Sampling Rate:	3 times/sec
Overload Indication:	"OL" or "-OL"
Low Battery Indication:	
Auto Power Off:	Approx. 20 minutes after last operation
Operating Temperature:	0°C~30°C(≦80% R.H.), 30°C~40°C(≦75% R.H.), 40°C~50°C(≦
	45% R.H.)
Storage Temperature:	-20°C~60°C
Temperature Coefficient:	0.1×(spec. Acc'y)/°C <18°C, >28°C
Safety:	IEC / EN 61010-1, IEC / EN 61010-2-033:CAT IV 600V/CAT III
	1000V, EN61326-1
Power Requirement:	Two 1.5V Alkaline type AA batteries
Battery Life:	300 hours(Alkaline)
Size:	82mm(W)×165mm(L)×46mm(H)
Weight:	430g with battery
Accessories:	Battery (installed), Test Leads, Protective Holster, Temperature
	Probe and User Manual