



ENGLISH

Datasheet

Stock No. 2017830, 2017832, 2017833

RS PRO VTA Electrical Tester



Feature:

- 2 pole tester with 2000 count digital display
- 9999 Count digital display
- Bright LED Bargraph
- True RMS on ACV/ACA
- < 09999 Count digital display
- Bright LED Bargraph
- True RMS on ACV/ACA
- < 0.5s Bar Response time
- < 0.5s DCV Reading response time
- White LED Auto backlight display
- Auto AC/DC 1000V capability and selection
- AC 200A Measurement
- 50K Ohms Resistance capability
- Phase Rotation Indication
- Input Peak Current: $I_s < 3.5\text{mA} @ 1000\text{V}$
- 16mm Fork opening for Conductor AWG 4/0 wire
- Small 39mm Width Jaw size easy to use at a crowded area

- Test tip fixture @ front with 19 mm distance to fit sockets
- Auto Polarity Detection
- Single Pole test
- Bright torch (Pen Light)
- ELV Indication
- Self Test (LED & LCD)
- Measure voltage without battery with LED bar and LCD display
- Auto Power On/Off
- Data Hold
- IP65 Rating
- 4 feet Drop Proof
- Optional Deluxe Carrying Case
- Hand Guard & Stream Line Designed
- Convenient Battery Door
- Detachable test probe for easy replacement
- Φ 2mm / Φ 4mm tips changeable
- CAT IV 600V / CAT III 1000V Safety Standards
- Comply with IEC/EN 61243-3:2014

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

DC Voltage

| | Range | Resolution | Accuracy |
|-----------------|----------------|------------|------------|
| With batteries | 6.0V to 999.9V | 0.1V | ±(1.0%+2D) |
| Without battery | 35V to 999.9V | 0.1V | ±(1.0%+2D) |

Max. Input Current: < 3.5mA @ 1000V

Overload Protection: AC/DC 1000V

AC Voltage

| | Range | Resolution | Accuracy |
|-----------------|-------------------------------|------------|------------|
| With batteries | 6.0V ⁽¹⁾ to 999.9V | 0.1V | ±(1.5%+5D) |
| Without battery | 45V to 999.9V | 0.1V | ±(1.5%+5D) |

· For > 65Hz, the minimum range is 8.0V.

Frequency Response: 45Hz to 400Hz

Max. Input Current: < 3.5mA @ 1000V

Overload Protection: AC/DC 1000V

Resistance

| Range | Resolution | Accuracy |
|---------|------------|------------|
| 9999Ω | 1Ω | ±(1.5%+5D) |
| 50.00kΩ | 0.01kΩ | ±(1.5%+5D) |

Output Voltage: about 0.5V

Overload Protection: AC/DC 1000V

Continuity

Continuity: The built-in buzzer sounds in the case of measuring resistance less than 1.8kΩ and may be up to 2.7kΩ. RX LED shows at the same time.

Continuity Indicator: 2.7kHz Tone Buzzer and RX LED

Response Time of Buzzer: < 100ms

Output Voltage: about 0.5V

Overload Protection: AC/DC 1000V

AC Current

| Range | Resolution | Accuracy |
|--------|------------|-----------------|
| 200.0A | 0.1A | $\pm(3.0\%+5D)$ |

Frequency Response: 45Hz to 65Hz

Overload Protection: AC/DC 200A

Voltage LED Indicator

| LED | Turning-on Level | Turning-off Level |
|---------|--------------------------------|---------------------------------|
| +12V | Vdc > 9.6V or Vac > 9.6V | Vdc < 9V and Vac < 9V |
| -12V | Vdc < -9.6V or Vac > 9.6V | Vdc > -9V and Vac < 9V |
| 24V | Vdc > 18.0V or Vac > 18.0V | Vdc < 17.0V and Vac < 17.0V |
| 50V | Vdc > 37.0V or Vac > 37.0V | Vdc < 36.0V and Vac < 36.0V |
| 120V | Vdc > 85.0V or Vac > 85.0V | Vdc < 84.0V and Vac < 84.0V |
| 230V | Vdc > 175.0V or Vac > 175.0V | Vdc < 174.0V and Vac < 174.0V |
| 400V | Vdc > 315.0V or Vac > 315.0V | Vdc < 314.0V and Vac < 314.0V |
| 690V | Vdc > 545.0V or Vac > 545.0V | Vdc < 544.0V and Vac < 544.0V |
| 1000V | Vdc > 845.0V or Vac > 845.0V | Vdc < 844.0V and Vac < 844.0V |
| ELV LED | > 48Vac or > 118Vdc | < 45Vac and < 115Vdc |

Rotary Field Indication

- For 3 phase 4 wire system only
- "L"LED is on when the signal of L2 probe leads the signal of L1 probe;"R"LED is on when the signal of L1 probe leads the signal L2 probe.

Sensitivity: 90V to 1000V (Phase-to-ground)

Frequency Range: 45Hz to 65Hz

Single-Pole Phase Check

Sensitivity: 90V to 1000V (Phase-to-ground)


Frequency Range: 45Hz to 65Hz

Indicator: 2.7kHz Tone Buzzer and ELV LED

Measuring Rate & Response Time

| Function | Time / Second | Response Time |
|----------|---------------|---------------|
| DCV | 2 | about 0.5sec |
| ACV | 2 | about 1.5sec |
| Resistor | 3 | < 2sec |
| Ampere | 3 | < 2sec |

General:

| | |
|---------------------------------|---|
| Sampling Rate: | 3 times/sec |
| Low Battery Indication: |  |
| Overload Indication: | OL |
| Auto Power Off: | 30sec after last operation |
| Operating Temperature: | -15°C to 30 °C (≤ 80% R.H.) 30°C to 40 °C (≤ 75% R.H.) 40°C to 55 °C (≤ 45% R.H.) |
| Storage Temperature: | -20°C ~60°C |
| Temperature Coefficient: | 0.2x(spec. Accuracy)/°C <18°C, >28°C |
| Safety: | IEC / EN 61010-1, IEC / EN 61010-2-033, IEC / EN 61010-031 for CAT IV 600V/CAT III 1000V EN61243-3 |
| Power Requirement: | Two 1.5V Alkaline type AAA batteries |
| Battery Life: | 1000 operations |
| Size: | 57mm(W)×220mm(L)×35mm(H) |
| Weight: | 200g |
| Accessories: | Battery (installed), Test Probes, Test Probe Protection, and User Manual |