



English

## Product Datasheet

Stock No: 146-9085

# RS PRO True RMS Compact Digital Multimeter

EN



CE



## Specifications


| Function  | Range                                   | Resolution  | Accuracy                                      |
|---|---|-------------|---|
| DC Voltage  | 400mV                                   | 0.1mV       | $\pm(1.0\% \text{reading} + 5 \text{digits})$ |
|   | 4V                                      | 0.001V      | $\pm(1.0\% \text{reading} + 3 \text{digits})$ |
|   | 40V                                     | 0.01V       |   |
|   | 400V                                    | 0.1V        |   |
|   | 600V                                    | 1V          |   |
| AC Voltage  |   |             | 50Hz to 60Hz                                  |
|   | 4V                                      | 0.001V      | $\pm(1.2\% \text{reading} + 3 \text{digits})$ |
|   | 40V                                     | 0.01V       |   |
|   | 400V                                    | 0.1V        |   |
|   | 600V                                    | 1V          |   |
| All AC voltage ranges are specified from 5% of range to 100% of range |   |             |   |
| DC Current  | 400 $\mu$ A                             | 0.1 $\mu$ A | $\pm(1.0\% \text{reading} + 3 \text{digits})$ |
|   | 4000 $\mu$ A                            | 1 $\mu$ A   | $\pm(1.2\% \text{reading} + 3 \text{digits})$ |
|   | 40mA                                    | 0.01mA      |   |
|   | 400mA                                   | 0.1mA       |   |
| DC Current  | 4A                                      | 0.001A      | $\pm(1.2\% \text{reading} + 3 \text{digits})$ |
|   | 10A                                     | 0.01A       |   |
|   | (20A: 30 sec max with reduced accuracy) |             |   |
| AC Current  |   |             | 50Hz to 60Hz                                  |
|   | 400 $\mu$ A                             | 0.1 $\mu$ A | $\pm(1.2\% \text{reading} + 3 \text{digits})$ |
|   | 4000 $\mu$ A                            | 1 $\mu$ A   |   |
|   | 40mA                                    | 0.01mA      |   |
|   | 400mA                                   | 0.1mA       |   |
|   | 4A                                      | 0.001A      | $\pm(1.8\% \text{reading} + 5 \text{digits})$ |
|   | 10A                                     | 0.01A       |   |
| (20A: 30 sec max with reduced accuracy)                               |   |             |   |
| All AC voltage ranges are specified from 5% of range to 100% of range |   |             |   |

**NOTE:** Accuracy is stated at 65oF to 83oF (18oC to 28oC) and less than 75% RH.

| Function               | Range  | Resolution | Accuracy                   |
|------------------------|--|------------|----------------------------|
| Resistance             | 400Ω   | 0.1kΩ      | ±(1.5%reading + 5 digits)  |
|                        | 4kΩ  | 0.001kΩ    |                            |
|                        | 40kΩ   | 0.01kΩ     |                            |
|                        | 400kΩ  | 0.1kΩ      |                            |
|                        | 4MΩ  | 0.001MΩ    | ±(2.5%reading + 20 digits) |
|                        | 40MΩ   | 0.01MΩ     |                            |
| Capacitance            | 40nF   | 0.01nF     | ±(4.5%reading + 10 digits) |
|                        | 400nF  | 0.1nF      |                            |
|                        | 4μF  | 0.001μF    | ±(3.0%reading + 5 digits)  |
|                        | 40μF   | 0.01μF     |                            |
|                        | 400μF  | 0.1μF      |                            |
|                        | 4000μF   | 1μF        | ±(5%reading + 5 digits)    |
| Frequency (electrical) | 10.00-10KHz  | 0.01Hz     | ±(1.2% reading)            |
|                        | Sensitivity: 15Vrms                                  |            |                            |
| Duty Cycle             | 0.1 to 99.9%   | 0.1%       | ±(1.2% reading + 2 digits) |
|                        | Pulse width: 100μs - 100ms, Frequency: 5Hz to 150kHz |            |                            |

**Note:** Accuracy specifications consist of two elements:

- (% reading) – This is the accuracy of the measurement circuit.
- (+ digits) – This is the accuracy of the analog to digital converter.

|                               |   |
|-------------------------------|---|
| <b>Enclosure</b>              | Double molded   |
| <b>Shock (Drop Test)</b>      | 6.5 feet (2 meters)   |
| <b>Diode Test</b>             | Test current of 1.5 mA maximum, open circuit voltage 3V DC typical  |
| <b>Continuity Check</b>       | Audible signal will sound if the resistance is less than 50Ω (approx.), test current < 0.35mA   |
| <b>Temperature Sensor</b>     | Requires type K thermocouple  |
| <b>Input Impedance</b>        | > 10MΩ VDC & > 10MΩ VAC   |
| <b>AC Response</b>            | TRMS  |
| <b>ACV Bandwidth</b>          | 50/60HZ(ALL WAVE) 45Hz to 1000Hz(SINE WAVE)   |
| <b>Crest Factor</b>           | ≤ 3 at full scale up to 300V, decreasing linearly to ≤ 1.5 at 600V  |
| <b>Display</b>                | 4,000 counts Positive Display   |
| <b>Overrange indication</b>   | "OL" is displayed   |
| <b>Auto Power Off</b>         | 15 minutes (approximately) with disable feature   |
| <b>Polarity</b>               | Automatic (no indication for positive); Minus (-) sign for negative   |
| <b>Measurement Rate</b>       | 3 times per second, nominal   |
| <b>Low Battery Indication</b> | "  " is displayed if battery voltage drops below operating voltage   |
| <b>Battery</b>                | 1.5V AAA * 2 battery  |
| <b>Fuses</b>                  | mA, μA ranges; 0.5A 600V ceramic fast blow A range; 10A/600V ceramic fast blow  |
| <b>Operating Temperature</b>  | 41°F to 104°F (5°C to 40°C)   |
| <b>Storage Temperature</b>    | -4°F to 140°F (-20°C to 60°C)   |
| <b>Operating Humidity</b>     | Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F (40°C)  |
| <b>Storage Humidity</b>       | < 80%   |
| <b>Operating Altitude</b>     | 7000ft. (2000meters) maximum.   |
| <b>Weight</b>                 | 0.753lb (342g) (includes holster).  |
| <b>Size</b>                   | (182 x 82 x 59mm) (includes holster)  |
| <b>Safety</b>                 | This meter is intended for origin of installation use and protected, against the users, by double insulation per EN61010-1 and IEC61010-1 2nd Edition (2001) to Category III 600V and Category II 1000V; Pollution Degree 2. The meter also meets UL 61010-1, 2nd Edition (2004), CAN/CSA C22.2 No. 61010-1 2nd Edition (2004), and UL 61010B-2-031, 1st Edition (2003) |



Français

Fiche Technique

Stock No: 146-9085

# RS PRO Multimètre numérique compact True RMS



## Spécifications

| Fonction   | Gamme  | Résolution | Précision                        |
|--|--|------------|----------------------------------|
| Tension continue   | 400mV  | 0.1mV      | ± (1,0% de lecture + 5 chiffres) |
|  | 4V   | 0.001V     |                                  |
|  | 40V  | 0.01V      |                                  |
|  | 400V   | 0.1V       |                                  |
|  | 600V   | 1V         |                                  |
| Tension alternative  |  |            | 50Hz à 60Hz                      |
|  | 4V   | 0.001V     | ± (1,2% de lecture + 3 chiffres) |
|  | 40V  | 0.01V      |                                  |
|  | 400V   | 0.1V       |                                  |
|  | 600V   | 1V         |                                  |
| Toutes les gammes de tension alternative sont spécifiées de 5 à 100% |  |            |                                  |
| Courant continue   | 400µA  | 0.1µA      | ± (1.0%reading + 3digits)        |
|  | 4000µA   | 1µA        |                                  |
|  | 40mA   | 0.01mA     |                                  |
|  | 400mA  | 0.1mA      | ± (1,2% de lecture + 3 chiffres) |
|  | 4A   | 0.001A     |                                  |
|  | 10A  | 0.01A      |                                  |
|  | (20A: 30 secondes de max avec une précision réduite) |            |                                  |
| Courant alternatif   |  |            | 50Hz to 60Hz                     |
|  | 400µA  | 0.1µA      | ± (1,2% de lecture + 3 chiffres) |
|  | 4000µA   | 1µA        |                                  |
|  | 40mA   | 0.01mA     |                                  |
|  | 400mA  | 0.1mA      |                                  |
|  | 4A   | 0.001A     | ± (1.8%reading + 5 digits)       |
|  | 10A  | 0.01A      |                                  |
|  | (20A: 30 sec max with reduced accuracy)              |            |                                  |
| Toutes les gammes de tension alternative sont spécifiées de 5 à 100% |  |            |                                  |


**REMARQUE:** La précision est indiquée entre 65 ° F et 83 ° F (18 ° C et 28 ° C) et moins de 75% HR.

| Fonction                  | Gamme   | Résolution | Précision                         |
|---------------------------|---|------------|-----------------------------------|
| Résistance                | 400Ω  | 0.1kΩ      | ± (1,5% de lecture + 5 chiffres)  |
|                           | 4kΩ   | 0.001kΩ    |                                   |
|                           | 40kΩ  | 0.01kΩ     |                                   |
|                           | 400kΩ   | 0.1kΩ      |                                   |
|                           | 4MΩ   | 0.001MΩ    |                                   |
|                           | 40MΩ  | 0.01MΩ     | ± (2,5% de lecture + 20 chiffres) |
| Capacitance               | 40nF  | 0.01nF     | ± (4,5% de lecture + 10 chiffres) |
|                           | 400nF   | 0.1nF      |                                   |
|                           | 4μF   | 0.001μF    | ± (3,0% de lecture + 10 chiffres) |
|                           | 40μF  | 0.01μF     |                                   |
|                           | 400μF   | 0.1μF      |                                   |
|                           | 4000μF  | 1μF        | ± (5% de lecture + 5 chiffres)    |
| Fréquence<br>(électrique) | 10.00-10KHz   | 0.01Hz     | ± (1,2% de lecture)               |
|                           | Sensibilité: 15 Vrms  |            |                                   |
| Cycle de service          | 0.1 to 99.9%  | 0.1%       | ± (1,2% de lecture + 2 chiffres)  |
|                           | Largeur d'impulsion: 100μs - 100ms, fréquence: 5Hz à 150kHz |            |                                   |

**Remarque:** Les spécifications d'exactitude comprennent deux éléments:

(% lecture) - C'est la précision du circuit.

(+ chiffres) - Ceci est la précision du convertisseur analogique-numérique.

|                                    |   |
|------------------------------------|---|
| <b>Enveloppe</b>                   | Double moulée   |
| <b>Choc (test de chute)</b>        | 6,5 pieds (2 mètres)  |
| <b>Test de diode</b>               | Courant de test de 1,5 mA maximum, tension de circuit ouvert 3V DC typique  |
| <b>Contrôle de continuité</b>      | Un signal sonore retentit si la résistance est inférieure à 50Ω (environ), courant de test < 0.35mA   |
| <b>Capteur de température</b>      | Requiert un thermocouple de type K  |
| <b>Impédance d'entrée</b>          | > 10MΩ VDC & > 10MΩ VAC   |
| <b>Réponse</b>                     | TRMS continue   |
| <b>Bande passante ACV</b>          | 50 / 60Hz (toute onde) 45Hz à 1000Hz (ONDE SINUSOÏDALE)   |
| <b>Facteur de crête</b>            | ≤ 3 à pleine échelle jusqu'à 300V, décroissant linéairement à ≤ 1,5 à 600V  |
| <b>Affichage</b>                   | 4000 comptes d'affichage positif  |
| <b>L'indication de dépassement</b> | "OL" est affichée   |
| <b>Auto Power Off</b>              | 15 minutes (approximately) with disable feature   |
| <b>Polarity</b>                    | Automatic (no indication for positive); Minus (-) sign for negative   |
| <b>Measurement Rate</b>            | 3 times per second, nominal   |
| <b>Low Battery Indication</b>      | "  " is displayed if battery voltage drops below operating voltage   |
| <b>Batterie</b>                    | 1.5V AAA * 2 batterie   |
| <b>Fusibles</b>                    | mA, gamme de $\mu$ A; 0.5A 600V céramique souffle rapide ;Une gamme de 10A / 600V céramique souffle rapide  |
| <b>Température</b>                 | 41°F à 104°F (5°C à 40°C)   |
| <b>Température de stockage</b>     | -4°F à 140°F (-20°C à 60°C)   |
| <b>Humidité</b>                    | Max 80% jusqu'à 31°C (87°F) , décroissant linéairement jusqu'à 50% à 40°C (104°F)   |
| <b>Humidité de stockage</b>        | < 80%   |
| <b>Altitude</b>                    | 7000ft. (2000mètres) maximum.   |
| <b>Poids</b>                       | 0.753lb (342g) (inclut l'étui).   |
| <b>Taille</b>                      | (182 x 82 x 59mm) (y compris l'étui)  |
| <b>Sécurité</b>                    | Ce compteur est destiné à être utilisé et protégé les utilisateurs, par une double isolation selon EN61010-1 et IEC61010-1 2nd Edition (2001) à Catégorie III 600V et Catégorie II 1000V; Degré de pollution 2. Le lecteur respecte également la norme UL 61010-1, 2e édition (2004), CAN / CSA C22.2 numéro 61010-1, 2nd édition (2004), et UL 61010B-2-031, 1ère édition (2003) |





Deutsch

Produkt - Datenblatt

Stock No: 146-9085

# RS PRO Echter RMS Compact Digital-Multimeter

DE



## Spécifications

| Funktion   | Bereich   | Auflösung   | Genauigkeit              |
|--|---|-------------|--------------------------|
| DC-Spannung  | 400mV   | 0.1mV       | ±(1.0%Lesen + 5Ziffern)  |
|  | 4V  | 0.001V      |                          |
|  | 40V   | 0.01V       |                          |
|  | 400V  | 0.1V        |                          |
|  | 600V  | 1V          |                          |
| AC-Spannung  |   |             | 50Hz bis 60Hz            |
|  | 4V  | 0.001V      | ±(1.2%Lesen + 3Ziffern)  |
|  | 40V   | 0.01V       |                          |
|  | 400V  | 0.1V        |                          |
|  | 600V  | 1V          |                          |
| Alle AC-Spannungsbereiche werden von 5% des Bereichs auf 100% des Bereichs angegeben |   |             |                          |
| Gleichstrom  | 400 $\mu$ A                                     | 0.1 $\mu$ A | ±(1.0%Lesen + 3Ziffern)  |
|  | 4000 $\mu$ A                                    | 1 $\mu$ A   |                          |
|  | 40mA  | 0.01mA      |                          |
|  | 400mA   | 0.1mA       | ±(1.2%Lesen + 3 Ziffern) |
|  | 4A  | 0.001A      |                          |
|  | 10A   | 0.01A       |                          |
|  | (20A: Max. 30 Sek. mit reduzierter Genauigkeit) |             |                          |
| AC-Spannung  |   |             | 50Hz bis60Hz             |
|  | 400 $\mu$ A                                     | 0.1 $\mu$ A | ±(1.2%Lesen + 3Ziffern)  |
|  | 4000 $\mu$ A                                    | 1 $\mu$ A   |                          |
|  | 40mA  | 0.01mA      |                          |
|  | 400mA   | 0.1mA       |                          |
|  | 4A  | 0.001A      | ±(1.8%Lesen + 5 Ziffern) |
|  | 10A   | 0.01A       |                          |
| (20A: 30 Sek. mit reduzierter Genauigkeit)   |   |             |                          |
| Alle AC-Spannungsbereiche werden von 5% des Bereichs auf 100% des Bereichs angegeben |   |             |                          |


**Hinweis:** Genauigkeit ist bei 65oF zu 83oF (18oC bis 28oC) und weniger als 75% RH angegeben.

| Funktion                 | Bereich   | Auflösung | Genauigkeit               |
|--------------------------|---|-----------|---------------------------|
| Widerstand               | 400Ω  | 0.1kΩ     | ±(1.5%Lesen + 5Ziffern)   |
|                          | 4kΩ   | 0.001kΩ   |                           |
|                          | 40kΩ  | 0.01kΩ    |                           |
|                          | 400kΩ   | 0.1kΩ     |                           |
|                          | 4MΩ   | 0.001MΩ   |                           |
|                          | 40MΩ  | 0.01MΩ    | ±(2.5%Lesen + 20 Ziffern) |
| Kapazität                | 40nF  | 0.01nF    | ±(4.5%Lesen + 10 Ziffern) |
|                          | 400nF   | 0.1nF     | ±(3.0%Lesen + 5Ziffern)   |
|                          | 4μF   | 0.001μF   |                           |
|                          | 40μF  | 0.01μF    |                           |
|                          | 400μF   | 0.1μF     | ±(5%Lesen + 5 Ziffern)    |
|                          | 4000μF  | 1μF       |                           |
| Frequenz<br>(elektrisch) | 10.00-10KHz                                       | 0.01Hz    | ±(1.2%Lesen)              |
|                          | Empfindlichkeit: 15Vrms                           |           |                           |
| Einschaltdauer           | 0.1 zu 99.9%                                      | 0.1%      | ±(1.2%Lesen + 2 Ziffern)  |
|                          | Pulsbreite: 100 μs-100M, Frequenz: 5Hz bis 150kHz |           |                           |

**Hinweis:** Genauigkeitsangaben bestehen aus zwei Elementen:

(% Lesen)– Dies ist die Genauigkeit des Messkreises.

(+ Ziffern) – Dies ist die Genauigkeit des analog-zu-Digital-Konverters.

|                                  |  |
|----------------------------------|--|
| <b>Gehäuse</b>                   | Doppelt geformt  |
| <b>Shock (Drop Test)</b>         | 6,5 Fuß (2 Meter)  |
| <b>Dioden-Test</b>               | Prüf Strom von 1,5 mA Maximum, Leerlaufspannung 3V DC typisch  |
| <b>Kontinuitäts Prüfung</b>      | Akustisches Signal ertönt, wenn der Widerstand weniger als 50 $\Omega$ beträgt (ca.), Test Strom < 0,35 mA   |
| <b>Temperaturfühler</b>          | Benötigt Thermoelement Typ K   |
| <b>Eingangsimpedanz</b>          | > 10M $\Omega$ VDC & > 10M $\Omega$ VAC  |
| <b>AC-Antwort</b>                | TRMS   |
| <b>ACV Bandbreite</b>            | 50/60HZ(alle Wellen) 45Hz bis 1000Hz(Sinuswelle)   |
| <b>Crest-Faktor</b>              | $\leq 3$ bei voller Skala bis 300V, linear abnehmend auf $\leq 1,5$ bei 600V   |
| <b>Display</b>                   | 4.000 zählt positive Anzeige   |
| <b>Über Reichweitenanzeige</b>   | "OL" wird angezeigt  |
| <b>Automatisches Ausschalten</b> | 15 Minuten (ca.) mit deaktivieren Funktion   |
| <b>Polarität</b>                 | Automatisch (keine Indikation für positiv); Minuszeichen (-) für negative  |
| <b>Messgeschwindigkeit</b>       | 3 Mal pro Sekunde, nominal   |
| <b>Niedrige Batterieanzeige</b>  | "  " wird angezeigt, wenn die Batteriespannung unter Betriebsspannung sinkt   |
| <b>Batterie</b>                  | 1.5V AAA * 2 Batterie  |
| <b>Sicherungen</b>               | MA, $\mu$ A Bereiche; 0.5 a 600V Keramik schnell Schlag ein Bereich; 10a/600V Keramik schnell Schlag   |
| <b>Betriebstemperatur</b>        | 41°F bis 104°F (5°C bis 40°C)  |
| <b>Lagertemperatur</b>           | -4°F bis 140°F (-20°C bis 60°C)  |
| <b>Betriebs feuchte</b>          | Max 80% bis zu 87°F (31°C) absteigend linear zu 50% bei 104°F (40°C)   |
| <b>Lagerungs feuchte</b>         | < 80%  |
| <b>Betriebshöhe</b>              | 7000ft. (2000meter) Maximum.   |
| <b>Gewicht</b>                   | 0.753lb (342g) (inkl. Holster)   |
| <b>Größe</b>                     | (182 x 82 x 59mm) (inkl. Holster).   |
| <b>Sicherheit</b>                | Dieser Zähler ist für den Ursprung der Installation bestimmt und wird gegen die Verwender durch Doppelisolierung je EN61010-1 und IEC61010-1 Zweite Edition (2001) auf Kategorie III 600V und Kategorie II 1000V; Verschmutzungsgrad 2. Das Messgerät erfüllt auch UL 61010-1, 2nd Edition (2004), can/CSA c 22.2 Nr. 61010-1 2nd Edition (2004) und UL 61010B-2-031, 1st Edition (2003) |



Italiano

Scheda Del Prodotto

Stock No: 146-9085

**RS PRO Multimetro digitale compatto True RMS**



## Specifiche

| Funzione  | Gamma  | Risoluzione | Precisione                |
|---|--|-------------|---------------------------|
| Tensione DC   | 400mV  | 0.1mV       | ±(1.0% lettura + 5 cifre) |
|   | 4V   | 0.001V      | ±(1.0% lettura + 3 cifre) |
|   | 40V  | 0.01V       |                           |
|   | 400V   | 0.1V        |                           |
|   | 600V   | 1V          |                           |
| Tensione AC   |  |             | Da 50Hz a 60Hz            |
|   | 4V   | 0.001V      | ±(1.2% lettura + 3 cifre) |
|   | 40V  | 0.01V       |                           |
|   | 400V   | 0.1V        |                           |
|   | 600V   | 1V          |                           |
| Tutti gli intervalli di tensione AC sono specificati dal 5% dell'intervallo al 100% dell'intervallo |  |             |                           |
| Corrente DC   | 400 $\mu$ A                                  | 0.1 $\mu$ A | ±(1.0% lettura + 3 cifre) |
|   | 4000 $\mu$ A                                 | 1 $\mu$ A   |                           |
|   | 40mA   | 0.01mA      |                           |
|   | 400mA  | 0.1mA       |                           |
| Corrente DC   | 4A   | 0.001A      | ±(1.2% lettura + 3 cifre) |
|   | 10A  | 0.01A       |                           |
|   | (20A: 30 sec massimo con precisione ridotta) |             |                           |
| Corrente AC   |  |             | Da 50Hz a 60Hz            |
|   | 400 $\mu$ A                                  | 0.1 $\mu$ A | ±(1.2% lettura + 3 cifre) |
|   | 4000 $\mu$ A                                 | 1 $\mu$ A   |                           |
|   | 40mA   | 0.01mA      |                           |
|   | 400mA  | 0.1mA       |                           |
|   | 4A   | 0.001A      | ±(1.8% lettura + 5 cifre) |
|   | 10A  | 0.01A       |                           |
| (20A: 30 sec massimo con precisione ridotta)  |  |             |                           |
| Tutti gli intervalli di tensione AC sono specificati dal 5% dell'intervallo al 100% dell'intervallo |  |             |                           |


**NOTA:** la precisione è indicata da 65 °F a 83 °F (da 18 °C a 28 °C) e inferiore al 75% di UR.

| Funzione               | Gamma   | Risoluzione     | Precisione                      |
|------------------------|---|-----------------|---------------------------------|
| Resistenza             | 400 $\Omega$  | 0.1k $\Omega$   | $\pm$ (1,5% lettura + 5 cifre)  |
|                        | 4k $\Omega$   | 0.001k $\Omega$ |                                 |
|                        | 40k $\Omega$  | 0.01k $\Omega$  |                                 |
|                        | 400k $\Omega$   | 0.1k $\Omega$   |                                 |
|                        | 4M $\Omega$   | 0.001M $\Omega$ |                                 |
|                        | 40M $\Omega$  | 0.01M $\Omega$  | $\pm$ (2,5% lettura + 20 cifre) |
| Capacità               | 40nF  | 0.01nF          | $\pm$ (4,5% lettura + 10 cifre) |
|                        | 400nF   | 0.1nF           |                                 |
|                        | 4 $\mu$ F   | 0.001 $\mu$ F   | $\pm$ (3,0% lettura + 5 cifre)  |
|                        | 40 $\mu$ F  | 0.01 $\mu$ F    |                                 |
|                        | 400 $\mu$ F   | 0.1 $\mu$ F     |                                 |
|                        | 4000 $\mu$ F  | 1 $\mu$ F       | $\pm$ (5% lettura + 5 cifre)    |
| Frequency (electrical) | 10.00-10KHz   | 0.01Hz          | $\pm$ (1,2% lettura)            |
|                        | Sensibilità: 15Vrms   |                 |                                 |
| Ciclo di lavoro        | Da 0.1 a 99.9%  | 0.1%            | $\pm$ (1,2% lettura + 2 cifre)  |
|                        | Larghezza dell'impulso: 100 $\mu$ s - 100ms, frequenza: da 5Hz a 150kHz |                 |                                 |

**Nota:** le specifiche di precisione sono costituite da due elementi:

(% di lettura) - Questa è la precisione del circuito di misura.

(+ cifre) - Questa è la precisione del convertitore analogico-digitale.

|  |   |
|--|---|
| <b>Involucro</b>                       | doppio stampato   |
| <b>Shock (Drop Test)</b>               | 6.5 piedi (2 metri)   |
| <b>Test dei diodi</b>                  | Corrente di prova di 1,5 mA massima, tensione circuito aperto 3 V CC tipica   |
| <b>Controllo della continuità</b>      | Il segnale acustico viene emesso se la resistenza è inferiore a 50 Ω (circa), corrente di prova < 0,35 mA   |
| <b>Sensore di temperatura</b>          | Richiede una termocoppia di tipo K.   |
| <b>Impedenza d'ingresso</b>            | > 10MΩ VDC e > 10MΩ VAC   |
| <b>Risposta AC</b>                     | TRMS  |
| <b>Larghezza di banda ACV</b>          | 50 / 60HZ (ALL WAVE) da 45Hz a 1000Hz (SINE WAVE)   |
| <b>Fattore di cresta</b>               | ≤ 3 a fondo scala fino a 300 V, con riduzione lineare a ≤ 1,5 a 600 V   |
| <b>Visualizza</b>                      | 4.000 conteggi Display positivo   |
| <b>Indicazione di over range</b>       | "OL" viene visualizzato   |
| <b>Spegnimento automatico</b>          | 15 minuti (circa) con funzione disabilitata   |
| <b>Polarità</b>                        | automatica (nessuna indicazione positiva); Segno meno (-) per negativo  |
| <b>Frequenza di misurazione</b>        | 3 volte al secondo, nominale  |
| <b>Indicazione di batteria scarica</b> | "  " viene visualizzato se la tensione della batteria scende al di sotto della tensione di esercizio   |
| <b>Batteria</b>                        | da 1,5 V AAA * 2 batteria   |
| <b>Fusibili</b>                        | mA, gamme μA; 0,5 A 600 V ceramica rapida colpo Una gamma; Colpo veloce ceramico 10A / 600V   |
| <b>Temperatura operativa</b>           | da 41°F a 104°F (da 5°C a 40°C)   |
| <b>Temperatura di stoccaggio</b>       | da -40 °F a 140 °F (da -20 °C a 60 °C)  |
| <b>Umidità operativa</b>               | Max 80% fino a 87°F (31°C) decrescente in modo lineare al 50% a 104°F (40°C)  |
| <b>Umidità di conservazione</b>        | < 80%   |
| <b>Altitudine operativa</b>            | 7000 piedi. (2000 metri) massimo  |
| <b>Peso</b>                            | 0,753 libbre (342 g) (include fondina)  |
| <b>Dimensioni</b>                      | (182 x 82 x 59 mm) (include fondina)  |
| <b>Sicurezza</b>                       | Questo strumento è destinato all'origine dell'installazione e protetto, contro gli utenti, dal doppio isolamento secondo EN61010-1 e IEC61010-1 2nd Edition (2001) a Categoria III 600 V e Categoria II 1000 V; Grado di inquinamento 2. Lo strumento soddisfa anche UL 61010-1, 2a edizione (2004), CAN / CSA C22.2 n. 61010-1 2a edizione (2004), e UL 61010B-2-031, 1st Edition (2003) |





Ficha De Producto

Español

Stock No: 146-9085

# RS PRO MULTIMETRO DIGITAL COMPACTO True-rms

ES




## Especificaciones

| Funcion  | Rango  | Resolucion | precision                  |
|--|--|------------|----------------------------|
| DC Voltaje   | 400mV  | 0.1mV      | ±(1.0%leyendo + 5digitos)  |
|  | 4V   | 0.001V     |                            |
|  | 40V  | 0.01V      |                            |
|  | 400V   | 0.1V       |                            |
|  | 600V   | 1V         |                            |
| AC Voltaje   |  |            | 50Hz to 60Hz               |
|  | 4V   | 0.001V     | ±(1.2%leyendo + 3 digitos) |
|  | 40V  | 0.01V      |                            |
|  | 400V   | 0.1V       |                            |
|  | 600V   | 1V         |                            |
| Todos los rangos de voltaje de CA se especifican desde el 5% del rango hasta el 100% del rango |  |            |                            |
| Corriente DC   | 400μA  | 0.1μA      | ±(1.0%leyendo + 3digitos)  |
|  | 4000μA   | 1μA        |                            |
|  | 40mA   | 0.01mA     |                            |
|  | 400mA  | 0.1mA      | ±(1.2%leyendo + 3 digitos) |
|  | 4A   | 0.001A     |                            |
|  | 10A  | 0.01A      |                            |
|  | (20A: máximo de 30 seg con precisión reducida) |            |                            |
| Corriente AC   |  |            | 50Hz to 60Hz               |
|  | 400μA  | 0.1μA      | ±(1.2%leyendo + 3 digitos) |
|  | 4000μA   | 1μA        |                            |
|  | 40mA   | 0.01mA     |                            |
|  | 400mA  | 0.1mA      |                            |
|  | 4A   | 0.001A     | ±(1.8%leyendo + 5 digitos) |
|  | 10A  | 0.01A      |                            |
|  | (20A: máx. 30 seg con precisión reducida)      |            |                            |
| Todos los rangos de voltaje de CA se especifican desde el 5% del rango hasta el 100% del rango |  |            |                            |

**NOTA:** La precisión se establece entre 65 °F y 83 °F (18 °C a 28 °C) y menos del 75% de HR.

| Funcion                   | Rango   | Resolucion               | precision                   |
|---------------------------|---|--------------------------|-----------------------------|
| Resistencia               | 400Ω  | 0.1kΩ                    | ±(1.5%leyendo + 5 digitos)  |
|                           | 4kΩ   | 0.001kΩ                  |                             |
|                           | 40kΩ  | 0.01kΩ                   |                             |
|                           | 400kΩ   | 0.1kΩ                    |                             |
|                           | 4MΩ   | 0.001MΩ                  | ±(2.5%leyendo + 20 digitos) |
|                           | 40MΩ  | 0.01MΩ                   |                             |
| Capacitancia              | 40nF  | 0.01nF                   | ±(4.5%leyendo + 10 digitos) |
|                           | 400nF   | 0.1nF                    |                             |
|                           | 4μF   | 0.001μF                  | ±(3.0%leyendo + 5 digitos)  |
|                           | 40μF  | 0.01μF                   |                             |
|                           | 400μF   | 0.1μF                    |                             |
| 4000μF                    | 1μF   | ±(5%leyendo + 5 digitos) |                             |
| Frecuencia<br>(electrica) | 10.00-10KHz   | 0.01Hz                   | ±(1.2% leyendo)             |
|                           | Sensibilidad: 15Vrms  |                          |                             |
| Ciclo de trabajo          | 0.1 to 99.9%  | 0.1%                     | ±(1.2% leyendo + 2 digitos) |
|                           | Anchura del pulso: 100μs - 100ms, Frecuencia: 5Hz to 150kHz |                          |                             |

**Nota:** las especificaciones de precisión constan de dos elementos:  
 (% de lectura) - Esta es la precisión del circuito de medición.  
 (+ dígitos) - Esta es la precisión del convertidor analógico a digital

|                                      |   |
|--------------------------------------|---|
| <b>Cubierta</b>                      | doble moldeada  |
| <b>Choque (Prueba de caída)</b>      | 6.5 pies (2 metros)   |
| <b>Prueba de diodo</b>               | Corriente de prueba de 1.5 mA máximo, voltaje de circuito abierto 3V DC típico  |
| <b>Comprobación de continuidad</b>   | La señal audible sonará si la resistencia es inferior a 50Ω (aprox.), prueba de corriente < 0.35mA  |
| <b>Sensor de temperatura</b>         | Requiere termopar de tipo K   |
| <b>Impedancia de entrada</b>         | > 10MΩ VDC y > 10MΩ VAC   |
| <b>Respuesta de CA</b>               | TRMS  |
| <b>Ancho banda de ACV</b>            | 50 / 60HZ (ALL WAVE) 45Hz a 1000Hz (SINE WAVE)  |
| <b>Factor de cresta</b>              | ≤ 3 en escala completa hasta 300V, disminuyendo linealmente a ≤ 1.5 a 600V  |
| <b>Pantalla</b>                      | 4.000 cuentas de pantalla positiva  |
| <b>Indicación de exceso de rango</b> | "OL" se visualiza   |
| <b>Apagado automático</b>            | 15 minutos (aproximadamente) con la función de desactivación  |
| <b>Polaridad automática</b>          | (sin indicación de positiva); Minus (-) signo negativo  |
| <b>Tasa de medición</b>              | 3 veces por segundo, nominal  |
| <b>Indicación de batería baja</b>    | "  " aparece si la carga de la batería cae por debajo del voltaje de operación |
| <b>Batería</b>                       | 1.5V AAA * 2 batería  |
| <b>Fusibles</b>                      | mA, μA rangos; 0.5A 600V ceramic fast blow A range; Golpe rápido de cerámica 10A / 600V   |
| <b>Temperatura de funcionamiento</b> | 41°F a 104°F (5°C a 40°C)   |
| <b>Temperatura de la memoria</b>     | -4°F a 140°F (-20°C a 60°C)   |
| <b>Humedad de funcionamiento</b>     | Máx. 80% hasta 87 °F (31 °C) disminuyendo linealmente hasta 50% a 104 °F (40 °C)  |
| <b>Humedad de almacenamiento</b>     | < 80%   |