



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 15XP-A Digital Multimeter

A compact digital multimeter for electronics and test applications

- The 15XP-A is the right choice for electronics engineers, technicians and field service
- Autoranging display for faster measurements
- TTL logic test for digital circuits
- Integrated tilt stand for easy bench use
- Diode test for component level troubleshooting
- Data Hold freezes display to “hold” measurement reading
- 750 V AC / 1000 V DC—highest voltage rating in this size of meter
- Special 2000M $\Omega$  measurement range



15XP-A

### No hassle warranty

*No waiting.*

*No shipping charges.*



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive “No Hassle” warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)



# 15XP-A Digital Multimeter

# Data Sheet

## General Specifications

|                         |   |
|-------------------------|---|
| Display                 | 3-1/2 digit liquid crystal display (LCD) with a maximum reading of 1999       |
| Polarity                | Automatic, positive implied, negative polarity indication                     |
| Overrange               | (OL) or (-OL) is displayed  |
| Zero                    | Automatic   |
| Low Battery Indication  | The "⚡" is displayed when the battery voltage drops below the operating level |
| Auto Power Off          | Approx. 10 minutes  |
| Measurement Rate        | 2 times per second, nominal   |
| Operating Environment   | 0 °C to 50 °C at <70 % R.H.   |
| Storage Temperature     | -20 °C to 60 °C, 0 to 80 % R.H. with battery removed from meter               |
| Accuracy                | Stated accuracy at 23 °C ± 5 °C, <75 % relative humidity                      |
| Temperature Coefficient | 0.1 x (specified accuracy) per °C (0 °C to 18 °C, 28 °C to 50 °C)             |
| Altitude                | 2000 m  |
| Power                   | Single standard 9 volt battery, NEDA 1604, JIS 006P, IEC 6F22                 |
| Battery Life            | 200 hours typical with carbon-zinc  |
| Dimensions              | (H x W x D) 155 mm x 72 mm x 32 mm  |
| Weight                  | Approx. 210 g including battery   |
| Warranty                | One-year  |

## Specifications

| Function                            | Range   | Accuracy   |
|-------------------------------------|---|--|
| <b>Voltage</b>                      |   |  |
| <b>DC Volts</b>                     |   |  |
| Ranges                              | 200 mV, 2 V, 20 V, 200 V, 1000 V                            | ± (0.5 % rdg + 1 dgt)                                      |
| <b>AC Volts (45 Hz to 500 Hz)</b>   |   |  |
| Ranges                              | 200 mV (45 Hz to 100 Hz)<br>2 V, 20 V, 200 V, 750 V         | ± (1.5 % rdg + 5 dgts)<br>± (1.5 % rdg + 5 dgts)           |
| Resolution                          | 100 µV  |  |
| Input Impedance                     | 400 mV: >100 MΩ; 4 V: 10 MΩ; 40 V to 1000 V: 9.1 MΩ         |  |
| Overload Protection                 | 1000 V DC or 750 V AC RMS                                   |  |
| <b>Current</b>                      |   |  |
| <b>DC Current</b>                   |   |  |
| Ranges                              | 200 µA, 2000 µA, 20 mA, 200 mA<br>2 A                       | ± (1.0 % rdg + 2 dgt)<br>± (2.0 % rdg + 3 dgts)            |
| <b>AC Current (45 Hz to 500 Hz)</b> |   |  |
| Ranges                              | 200 µA, 2000 µA, 20 mA, 200 mA<br>2 A                       | ± (1.5 % rdg + 5 dgts)<br>± (2.5 % rdg + 5 dgts)           |
| Resolution                          | 0.1 µA  |  |
| Input Protection                    | 2 A/1000 V fast blow ceramic fuse 6.3 mm x 32 mm on A input |  |
| Burden Voltage                      | 500 mV max. (2 V max. on 2 mA, 200 mA ranges)               |  |
| <b>Resistance</b>                   |   |  |
|                                     | 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ<br>2000 MΩ                 | ± (1.0 % rdg + 4 dgts)<br>± {5.0 % (rdg -10 dgts) +20 dgt} |
| Resolution                          | 100 mΩ  |  |
| Open Circuit Voltage                | -0.45 V DC typical, (-1.2 V DC on 200 Ω range)              |  |
| Overload Protection                 | 1000 V DC or 750 V AC RMS                                   |  |
| <b>Continuity</b>                   |   |  |
| Audible Indication                  | Less than 25 Ω  |  |
| Response Time                       | 100 ms  |  |
| Overload Protection                 | 1000 V DC or 750 V AC RMS                                   |  |

## Specifications, cont.

| Function   | Range                      | Accuracy                                   |
|--|----------------------------|--|
| <b>Diode Test</b>  |                            |  |
| Test Current   | 1.2 mA (approximate)       | $\pm(1.5 \% \text{ rdg} + 3 \text{ dgts})$ |
| Resolution   | 1 mV                       |  |
| Open Circuit Voltage   | 3.0 dc typical             |  |
| Overload Protection  | 1000 V DC or 750 V AC RMS  |  |
| <b>Logic Test</b>  |                            |  |
|  | TTL                        |  |
| Thresholds Logic 1 (Hi)  | 2.8 V $\pm$ 0.8 V          |  |
| Thresholds Logic 0 (Lo)  | 0.8 V $\pm$ 0.5 V          |  |
| Test Voltage   | TTL 5 VDC                  |  |
| Frequency Range  | 20 MHz                     |  |
| Pulse Width  | 25 ns min                  |  |
| Duty Cycle Limits  | > 30 % and < 70 %          |  |
| Indication   | 40 ms beep at Logic 0 (Lo) |  |
| Overload Protection  | 1000 VDC or 750 VAC RMS    |  |
| <b>Non-Contact Voltage Indicator</b>   |                            |  |
| Sense voltage 70 V to 600 V ac (50 Hz to 60 Hz) beeper chirps and big bright red LED comes on, works on all ranges |                            |  |



### Included Accessories

Pair of test leads (TL245A), fuse 2 A/1000 V (P/N FP200), 9 V battery (installed), Magne-Grip™ Holster with magnetic hanging strap and users manual.

### Optional Accessories

**VC30A** Carrying Case  
**DL243D** Test Lead Kit

### Amprobe® Test Tools

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