



## HD160C Heavy-duty digital multimeter (TRMS)

### Functions

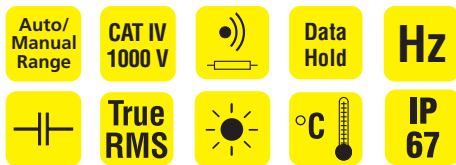
- Voltage, current and resistance measurement
- Diode and acoustic continuity test
- Capacitance and frequency measurement
- Temperature measurement

### Product information

- Automatic and manual range selection
- Integrated measurement memory (data hold)
- MIN/MAX, relative and average value measurement
- Backlight
- Shock-proof and impact-resistant thanks to standard protective holster
- Auto power-off

### Product highlights

- True RMS measurement (TRMS)
- Highest safety rating of CAT IV/1000 V
- High voltages (1000 V AC and 1500 V DC)
- Protection category: IP67



### Scope of supply:

- 1 x HD160C
- 2 x test leads
- 1 x magnetic holster
- 1 x temperature probe
- 1 x 9 V battery, IEC 6LR61
- 1 x user manual



### Accessories:

Test lead set TL245A



Carrying case VC221B

### Technical Data

|                          |                               |
|--------------------------|-------------------------------|
| Display:                 | LCD, 4-digit, 9999 digits     |
| Measurement ranges       |                               |
| AC voltage:              | 0.1 mV...1000 V               |
| Basic accuracy:          | ±(1.2% rdg. + 10 digits)      |
| Frequency range:         | 45 Hz...2 kHz                 |
| DC voltage:              | 0.1 mV...1500 V               |
| Basic accuracy:          | ±(0.1% rdg. + 5 digits)       |
| Input resistance:        | 10 MΩ                         |
| Current AC:              | 0.01 μA...2 A                 |
| Basic accuracy:          | ±(0.8% rdg. + 4 digits)       |
| Frequency range:         | 45 Hz...1 kHz                 |
| Current DC:              | 0.01 μA...2 A                 |
| Basic accuracy:          | ±(1.5% rdg. + 10 digits)      |
| Resistance:              | 0.1 Ω...40 MΩ                 |
| Basic accuracy:          | ±(1.0% rdg. + 10 digits)      |
| Continuity:              | R < 40 Ω                      |
| Frequency measurement:   | 0.01 Hz...10 MHz              |
| Basic accuracy:          | ±(0.1% rdg. + 5 digits)       |
| Capacitance measurement: | 0.01 nF...400.0 μF            |
| Basic accuracy:          | ±(3.0% rdg. + 10 digits)      |
| Temperature:             | -20°C...1300°C                |
| Basic accuracy:          | ±(1.0% rdg. + 3°C)            |
| Pollution degree:        | 2                             |
| Measurement category:    | CAT IV/1000 V                 |
| Safety cert.:            | EN 61010, IEC 61010           |
| Power supply:            | 1 x 9 V battery, IEC 6LR61    |
| Dimensions:              | 200 x 102 x 59 mm             |
| Weight:                  | approx. 642 g (incl. battery) |

### Ordering Information:

| Description | Order No. |
|-------------|-----------|
| HD160C      | 2670787   |
| TL245A      | 3034444   |
| VC221B      | 3068271   |



## 5XP-A Digital multimeter with non-contact voltage detection

### Functions

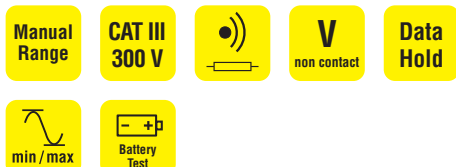
- Voltage, current and resistance measurement
- Diode and acoustic continuity test

### Product information

- Manual range selection
- Integrated measurement memory (data hold) and MIN/MAX hold
- Shock-proof and impact-resistant thanks to standard protective holster

### Product highlights

- Non-contact voltage detection (NCV)
- Magnetic holster (Magne-Grip™)
- 1.5 V and 9 V battery test



### Scope of supply:

- 1 x 5XP-A
- 2 x test leads
- 1 x magnetic holster
- 1 x 9 V battery, IEC 6LR61
- 1 x user manual



### Accessories:

Carrying case VC30A



Test lead set TL245A

### Technical Data

|                       |                               |
|-----------------------|-------------------------------|
| Display:              | LCD, 3 1/2-digit, 1999 digits |
| Measurement ranges    |                               |
| AC voltage:           | 0.1 mV...750 V                |
| Basic accuracy:       | ±(1.5% rdg. + 5 digits)       |
| Frequency range:      | 45...500 Hz                   |
| DC voltage:           | 0.1 mV...1000 V               |
| Basic accuracy:       | ±(1% rdg. + 1 digit)          |
| Current AC:           | 0.1 μA...200 mA               |
| Basic accuracy:       | ±(2% rdg. + 5 digits)         |
| Frequency range:      | 45...500 Hz                   |
| Current DC:           | 0.1 μA...200 mA               |
| Basic accuracy:       | ±(1.5% rdg. + 1 digit)        |
| Resistance:           | 0.1 Ω...20 MΩ                 |
| Basic accuracy:       | ±(1% rdg. + 4 digits)         |
| Continuity:           | R < 75 Ω                      |
| Pollution degree:     | 2                             |
| Measurement category: | CAT III/300V, CAT II/600V     |
| Safety cert.:         | EN 61010, IEC 61010           |
| Power supply:         | 1 x 9 V battery, IEC 6LR61    |
| Dimensions:           | 155 x 72 x 32 mm              |
| Weight:               | approx. 210 g (incl. battery) |

### Ordering Information:

| Description | Order No. |
|-------------|-----------|
| 5XP-A       | 2727851   |
| VC30A       | 3068280   |
| TL245A      | 3034444   |