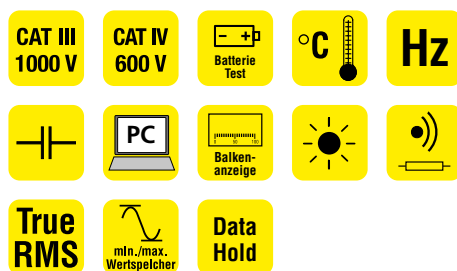


# Digital multimeters



## XR-A series includes:

- 1 37XR-A or 38XR-A
- 2 test leads
- 1 magnet clip
- 2 test leads
- 1 temperature adapter (only 38XR-A)
- 1 temperature probe (0°C–200°C) (only 38XR-A)
- 1 9 V battery, IEC 6LR61
- 1 product manual



## Accessories:

For all XR-A models

Large carry case      Order no.  
VC221B



Safety set      Order no.  
370003



For 38XR-A

Software "38SW-A" to transfer and display the readings to a PC      Order no. 38SW-A

## 37XR-A

### Functions

- Voltage, current and resistance measurement
- Diode and audible continuity testing
- Capacitance and frequency measurement
- Attenuation measurement (dBm)

### Device information

- Automatic and manual measurement range selection
- Integrated readings memory (data hold, MIN/MAX)
- Relative and peak value measurement
- Additional bar graph display (41 segments)
- Auto power-off
- Illuminated display
- Shock and impact-resistant thanks to protective shell as standard

### Device features

- Non-contact voltage detection (NVC)
- Magnet clip (Magne-Grip™)
- Audible warning signal in case of incorrect jack assignment for the measurement range and display message

### Only relevant for 37XR-A:

- Inductance measurement
- Logic test function (TTL, CMOS)
- Duty cycle function

## 38XR-A

### Same as 37XR-A, but with:

- Temperature measurement

### Device features

- True RMS measurement, AC+DC (TRMS)
- RS-232 interface for connection to PCs (Software "38SW-A" available as an option)
- Current loop measurement 4–20 mA

## XR-A series specifications\*

|                           |  |
|---------------------------|--|
| Display                   | LCD, 4-digit, 9999 digits  |
| Measurement ranges        |  |
| AC voltage                | 0.1 mV–750 V   |
| Basic accuracy            | ±(1.2% of reading + 10 digits)   |
| Frequency range           | 45 Hz–2 kHz  |
| DC voltage                | 0.1 mV–1000 V  |
| Basic accuracy            | ±(0.25% of reading + 5 digits)   |
| Input resistance          | 10 MΩ  |
| AC current                | 0.1 μA–10 A  |
| Basic accuracy            | ±(1.5% of reading + 20 digits)   |
| Frequency range           | 45 Hz–1 kHz  |
| DC current                | 0.1 μA–10 A  |
| Basic accuracy            | ±(0.5% of reading + 10 digits)   |
| Resistance                | 0.1 Ω–40 MΩ  |
| Basic accuracy            | ±(0.5% of reading + 8 digits)  |
| Continuity                | R < 40 Ω   |
| Frequency                 | 3.00 Hz–10 MHz   |
| Basic accuracy            | ±(0.1% of reading + 5 digits)  |
| Capacitance               | 0.01 nF–400.0 μF   |
| Basic accuracy            | ±(3.0% of reading + 10 digits)   |
| Temperature               | –20°C–1300°C   |
| Basic accuracy            | ±(1.0% of reading + 3°C)   |
| Current loop measurement  | (4–20 mA) 0 to 100%  |
| Basic accuracy            | ± (0.5% + 5 digits)  |
| Attenuation               | –13 dBm to +50 dBm   |
| Basic accuracy            | ± (0.7 dB + 8 digits)  |
| Degree of contamination 2 |  |
| Measurement category      | CAT III/300 V, CAT II/600 V (30XR-A), CAT III/600 V, CAT II/1000 V (33XR-A, 34XR-A, 37XR-A), CAT IV/600 V, CAT III/1000 V (38XR-A) |
| Safety certificate:       | DIN VDE 0411, EN 61010, IEC 61010  |
| Power supply              | 1 9 V battery, IEC 6LR61   |
| Dimensions                | 196 x 92 x 60 mm   |
| Weight                    | approx. 492 g (including battery)  |

## Ordering information:

| Name              | Order no. | Item no. |
|-------------------|-----------|----------|
| 37XR-A            | 37XR-A-D  | 3454698  |
| 38XR-A            | 38XR-A-D  | 3454705  |
| VC221B (case)     | VC221B    | 3068271  |
| Safety set        | 370003    | 2146666  |
| 38SW-A (software) | 38SW-A    | 2727813  |