

# 35XP

The compact, full-featured meter for facilities, HVAC technician, residential and commercial electricians



- 4000 count resolution
- Temperature measurement capability to 1000 °C/1832 °F (type K thermocouple included)
- 750 V AC/ 1000 V DC
- Capacitance
- Frequency
- Resistance and continuity
- Data hold
- Triple safety rating protects against line surges and overvoltage conditions
- MSRP \$79.95 (US)

The new Wavetek Meterman 35XP digital multimeter provides superior features and accuracy in a smaller form factor. The 35XP has unique features such as VolTect™ non-contact voltage (NCV) detection, temperature, high energy

safety ratings and our exclusive Magne-Grip™ holster that frees both hands. At less than \$80 MSRP, the 35XP is the right choice for HVAC, plant maintenance technicians and residential electricians.

Digital Multimeter

## 35XP Specifications

<b>DC Volts</b>	
Ranges	400 mV, 4 V, 40 V, 400 V, 1000 V
Resolution	100 $\mu$ V
Accuracy	$\pm$ (0.5 % rdg + 1 dgt)
Input impedance	400 mV: > 100 M $\Omega$ ; 4 V: 10 M $\Omega$ ; 40 V ~ 1000 V: 9.1 M $\Omega$
Overload protection	1000 VDC or 750 VAC rms
<b>AC Volts (45 Hz - 500 Hz)</b>	
Ranges	400 mV, 4 V, 40 V, 400 V, 750 V
Resolution	100 $\mu$ V
Accuracy	$\pm$ (1.5 % rdg + 5 dgts) 45 Hz ~ 100 Hz on 400 mV range $\pm$ (1.5 % rdg + 5 dgts) on 4 V to 750 V ranges
Input impedance	400 mV: > 100 M $\Omega$ ; 4 V: 10 M $\Omega$ ; 40 V ~ 1000 V: 9.1 M $\Omega$
Overload protection	1000 VDC or 750 VAC rms
<b>DC Current</b>	
Ranges	400 $\mu$ A, 4000 $\mu$ A, 40 mA, 400 mA, 2 A
Resolution	0.1 $\mu$ A
Accuracy	$\pm$ (1.0 % rdg + 2 dgt) on 400 $\mu$ A to 400 mA ranges $\pm$ (2.0 % rdg + 3 dgts) on 2 A range
Input protection	2 A/1000 V fast blow ceramic fuse 6.3 32 mm on A input
Burden voltage	500 mV max. (2 V max. on 4 mA, 400 mA ranges)
<b>AC Current (45 Hz - 500 Hz)</b>	
Ranges	400 $\mu$ A, 4000 $\mu$ A, 40 mA, 400 mA, 2 A
Resolution	0.1 $\mu$ A
Accuracy	$\pm$ (1.5 % rdg + 5 dgts) on 400 $\mu$ A to 400 mA ranges $\pm$ (2.5 % rdg + 5 dgts) on 2 A range
Input protection	2 A/1000 V fast blow ceramic fuse 6.3 x 32 mm on A input
Burden voltage	500 mV max. (2 V max. on 4 mA, 400 mA ranges)
<b>Resistance</b>	
Ranges	400 $\Omega$ , 4 k $\Omega$ , 40 k $\Omega$ , 400 k $\Omega$ , 4 M $\Omega$ , 40 M $\Omega$
Resolution	100 m $\Omega$
Accuracy	$\pm$ (1.0 % rdg + 4 dgts) on 400 $\Omega$ to 4 M $\Omega$ ranges $\pm$ (2.0 % rdg + 5 dgts) on 40 M $\Omega$ range
Open circuit volts	-0.45 V dc typical, (-1.2 Vdc on 400 $\Omega$ range)
Overload protection	1000 VDC or 750 VAC rms

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**VolTect™**  
Non-Contact  
Voltage Detector



*Magne-Grip™ holster frees both hands for work*

## 35XP Specifications *cont.*

Capacitance	
Ranges	4 nF, 40 nF, 400 nF, 4 μF, 40 μF, 400 μF, 4 mF
Resolution	1 pF
Accuracy	± (5.0 % rdg + 30 dgts) on 4 nF to 4 μF ranges ± (5.0 % rdg + 5 dgts) on 40 μF to 400 μF ranges ± (5.0 % rdg + 15 dgts) on 4 mF ranges
Test voltage	< 1 V
Test frequency	1.3 Hz on 4 nF to 40 μF ranges, 0.7 Hz on 400 μF, 4 mF ranges
Input protection	2 A/1000 V fast blow ceramic fuse 6.3 x 32 mm on A input
Temperature	
Ranges	-20 °C ~ 1000 °C, -4 °F ~ 1832 °F
Resolution	0.1 °C, 0.1 °F
Accuracy	± (2.0 % rdg + 4 °C) -20 °C ~ 10 °C ± (1.0 % rdg + 3 °C) 10 °C ~ 200 °C ± (3.0 % rdg + 2 °C) 200 °C ~ 1000 °C ± (2.0 % rdg + 8 °F) -4 °F ~ 50 °F ± (1.0 % rdg + 6 °F) 50 °F ~ 400 °F ± (3.0 % rdg + 4 °F) 400 °F ~ 1832 °F
Overload protection	1000 VDC or 750 VAC rms
Frequency	
Ranges	4 k, 40 k, 400 k, 4 M, 40 MHz
Resolution	1 Hz
Accuracy	± (0.1 % rdg + 3 dgts)
Sensitivity	10 Hz ~ 4 MHz: > 1.5 V rms; 4 MHz ~ 40 MHz: > 2 V rms, < 5 V rms
Minimum pulse width	> 25 ns
Duty cycle limits	> 30 % and < 70 %
Overload protection	1000 VDC or 750 VAC rms
Continuity	
Audible indication	Less than 25 Ω
Response time	100 ms
Overload protection	1000 VDC or 750 VAC rms
Diode Test	
Test current	1.2 mA (approximate)
Accuracy	± (1.5 % rdg + 3 dgts)
Resolution	1 mV
Open circuit volts	3.0 dc typical
Overload protection	1000 VDC or 750 VAC rms
Non-Contact Voltage Indicator	
Sense voltage 70 V to 600 VAC beeper chirps and big bright red LED comes on, works on all ranges	

## 35XP

The compact, full-featured meter for facilities, HVAC technician, residential and commercial electricians



Measures temperature  
(thermocouple included)

### 35XP General Specifications

<b>Display</b>	3-3/4 digit liquid crystal display (LCD) with a maximum reading of 3999
<b>Polarity</b>	Automatic, positive implied, negative polarity indication
<b>Overrange</b>	(OL) or (-OL) is displayed
<b>Zero</b>	Automatic
<b>Low battery indication</b>	The "⊕" is displayed when the battery voltage drops below the operating level
<b>Auto power off</b>	Approx. 10 minutes
<b>Measurement rate</b>	2 times per second, nominal
<b>Operating environment</b>	0 °C to 50 °C at < 70 % R.H.
<b>Storage temperature</b>	-20 °C to 60 °C, 0 to 80 % R.H. with battery removed from meter
<b>Accuracy</b>	Stated accuracy at 23 °C ± 5 °C, < 75 % relative humidity
<b>Temperature coefficient</b>	0.1 x (specified accuracy) per °C. (0 °C to 18 °C, 28 °C to 50 °C)
<b>Altitude</b>	6561.7 feet (2000 M)
<b>Power</b>	Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22
<b>Battery life</b>	150 hours typical with carbon-zinc, 300 hours typical with alkaline
<b>Dimensions</b>	155 mm (H) x 72 mm (W) x 32 mm (D)
<b>Weight</b>	Approx. 400 g including battery
<b>Safety</b>	Designed to meet IEC 1010-1, Rev-2 CAT I 1000V, CAT II 600V, CAT III 300V, class 2 and pollution degree 2 indoor use. Complies with CE and CSA 22.2 No. 1010-1 requirements.

#### Auxiliary Features

<b>Data hold</b>	Freeze the latest reading on the display
<b>Range</b>	Execute manual range mode
<b>AUTO power off</b>	After auto power off, press any button to restart the meter, and the last reading of measurement will be maintained in the display
<b>A jack</b>	Input warning detects wrong connection

#### Included Accessories

One pair test leads TL245, fuse 2 A/1000 V (installed) P/N FP200, 9 V battery (installed) and operating instructions holster, magnet strap, temperature adapter, K-type thermocouple



**Wavetek Meterman.**  
The right tool for the job™

#### Wavetek Meterman Test Tools

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