35XP

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



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.

- 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

35XP Specifications

DC Volts	
Ranges	400 mV, 4 V, 40 V, 400 V, 1000 V
Resolution	100 µV
Accuracy	± (0.5 % rdg + 1 dgt)
Input impedance	400 mV: > 100 MΩ; 4 V: 10 MΩ; 40 V ~ 1000 V: 9.1 MΩ
Overload protection	1000 VDC or 750 VAC rms
AC Volts (45 Hz - 500 Hz)	
Ranges	400 mV, 4 V, 40 V, 400 V, 750 V
Resolution	100 µV
Accuracy	± (1.5 % rdg + 5 dgts) 45 Hz ~ 100 Hz on 400 mV range
	± (1.5 % rdg + 5 dgts) on 4 V to 750 V ranges
Input impedance	400 mV: > 100 MΩ; 4 V: 10 MΩ; 40 V ~ 1000 V: 9.1 MΩ
Overload protection	1000 VDC or 750 VAC rms
DC Current	
Ranges	400 µA, 4000 µA, 40 mA, 400 mA, 2 A
Resolution	0.1 µA
Accuracy	± (1.0 % rdg + 2 dgt) on 400 µA to 400 mA ranges
	± (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)
AC Current (45 Hz - 500 Hz)	
Ranges	400 µA, 4000 µA, 40 mA, 400 mA, 2 A
Resolution	0.1 µA
Accuracy	± (1.5 % rdg + 5 dgts) on 400 µA to 400 mA ranges
	± (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)
Resistance	
Ranges	400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 4 MΩ, 40 MΩ
Resolution	100 mΩ
Accuracy	± (1.0 % rdg + 4 dgts) on 400 Ω to 4 MΩ ranges
	± (2.0 % rdg + 5 dgts) on 40 MΩ range
Open circuit volts	-0.45 V dc typical, (-1.2 Vdc on 400 Ω range)
Overload protection	1000 VDC or 750 VAC rms

Digital Multimeter

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VoltTect™
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 uF, 400 uF, 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	

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Digital Multimeter



Measures temperature (thermocouple included)

35XP General Specifications

Display	3-3/4 digit liquid crystal display (LCD) with a maximum reading of 3999
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	6561.7 feet (2000 M)
Power	Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22
Battery life	150 hours typical with carbon-zinc, 300 hours typical with alkaline
Dimensions	155 mm (H) x 72 mm (W) x 32 mm (D)
Weight	Approx. 400 g including battery
Safety	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

Data hold	Freeze the latest reading on the display
Range	Execute manual range mode
AUTO power off	After auto power off, press any button to restart the meter, and the last reading of measurement will be maintained in the display
A jack	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

CAT I 1000 V · CAT II 600 V · CAT III 300 V · CSA C US · CE

WARRANTY NO HASSLE PROGRAM

Wavetek Meterman.
The right tool for the job™

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