

XL Series

3³/₄ Digit, Analog and Digital Display, Low-Cost, Auto-ranging DMMs

- ◆ Low-Cost, Small-Size
- ◆ 15mm (0.6 inch) High Digits and 32 Segment Bargraph
- ◆ Reliable and Rugged for Field Service
- ◆ Fused Current Inputs
- ◆ Auto-Off Feature
- ◆ Long, 1000 Hour Battery Life
- ◆ Data Hold
- ◆ Capacitance (DM35XL)



The new DM30XL and DM35XL are the low-cost solution in performance, auto-ranging DMMs.

These two meters are encased in our small, popular XL size package and offer excellent 0.5% accuracy. Their higher resolution, large character, 3200-count digital and 32-segment analog bargraph displays assure maximum readability.

Meters include measuring functions for DC and AC Voltage, DC and AC current, resistance from 320 Ω to 30 M Ω , diode test, and continuity test. The Model DM35XL adds capacitance measuring capability.

Both meters feature fully-fused current input jacks, incorrect input warning, 10 minute auto-off, and data hold button. Safety test leads, battery, Operator's Manual, and an extra fuse are included. Accessory holster/tilt stand, H10, is optionally available (see page 34).

XL Series Specifications (at 23°C \pm 5°C; <70% R.H.)

MODEL		DM30XL	DM35XL
DC Voltage	Ranges	320mV, 3.2V, 32V, 600V	320mV, 3.2V, 32V, 600V
	Accuracy	$\pm 0.5\% \text{rdg} \pm 1 \text{dgt}$	$\pm 0.5\% \text{rdg} \pm 1 \text{dgt}$
	Resolution	100 μV	100 μV
	Input Imped.	>1000M Ω	>1000M Ω
AC Voltage (50 - 500Hz)	Ranges	3.2V, 32V, 320V, 600V	3.2V, 32V, 320V, 600V
	Accuracy	$\pm 2\% \text{rdg} \pm 4 \text{dgt}$	$\pm 2\% \text{rdg} \pm 4 \text{dgt}$
	Input Impedance	11M Ω	11M Ω
		10M Ω	10M Ω
DC Current	Ranges	320 μA , 3200 μA , 32mA, 320mA, 10A	320 μA , 3200 μA , 32mA, 320mA, 10A
	Accuracy	2.5%rdg $\pm 1 \text{dgt}$	2.5%rdg $\pm 1 \text{dgt}$
	Resolution	100nA	100nA
		320 μA , 3200 μA , 32mA, 320mA, 10A	320 μA , 3200 μA , 32mA, 320mA, 10A
AC Current (50 - 500Hz)	Ranges	320 μA , 3200 μA , 32mA, 320mA, 10A	320 μA , 3200 μA , 32mA, 320mA, 10A
	Accuracy	$\pm 2.5\% \text{rdg} \pm 4 \text{dgt}$	$\pm 2.5\% \text{rdg} \pm 4 \text{dgt}$
		32mA-10A	$\pm 3.5\% \text{rdg} \pm 4 \text{dgt}$
	Resolution	100nA	100nA
Resistance	Ranges	320 Ω , 32K Ω , 320K Ω , 3.2M Ω , 32M Ω	10-320 Ω , 32K Ω , 320K Ω , 3.2M Ω , 32M Ω
	Accuracy	$\pm 2.0\% \text{rdg} \pm 3 \text{dgt}$	$\pm 2.0\% \text{rdg} \pm 3 \text{dgt}$
		3.2K to 320K Ω	$\pm 1.5\% \text{rdg} \pm 3 \text{dgt}$
		3.2M Ω	$\pm 2.5\% \text{rdg} \pm 3 \text{dgt}$
Diode Test Voltage/Current		$\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$	$\pm 5.0\% \text{rdg} \pm 5 \text{dgt}$
		3.2VDC/0.6mA	0.6mA/3.2VDC
	Continuity Test	Tone <20 Ω	Tone <20 Ω
	Capacitance		32 μF , 320 μF , 3.2mF, 32mF
Capacitance	Ranges	—	$\pm 5\% \text{rdg} \pm 20 \text{dgt}$
	Accuracy	—	

OVERLOAD PROTECTION

Voltage: 600 VDC or AC RMS, all ranges AC and DC; **Amps:** (320mA jack) 0.5A/250V fast blow ceramic fuse, (10A jack) 10A/600V fast blow ceramic fuse; **Resistance:** 500VDC or AC RMS; **Capacitance:** 0.1A/250V fuse (DM35XL); **Continuity:** 500VDC or AC RMS

GENERAL

Display: 3³/₄ digit (3200 counts), 32 segment bargraph, LCD; **Display Update Rate:** 2/second nominal, bargraph 12/second; **Low Battery Indication:** battery symbol in LCD; **Operating Temperature:** 0° to 50°C, 0 to 70%RH, non-condensing; **Storage Temperature:** -20° to 60°C, 0 to 80% RH, non-condensing (battery removed); **Battery Type/Life:** Standard 9V Battery, NEDA 1604 / IEC6F22 / JIS009P, (DM30XL) 1500 hours w/alk or 1000 hours w/carbon-zinc, (DM35XL) 500 hours w/alk or 300 hour w/carbon-zinc, Power-Off automatic after 10 minutes inactive; **Dimensions (HxWxD):** 15.5cm x 7.2cm x 3.2cm (6.1" x 2.8" x 1.3"); **Weight (including battery):** 170g (6.5 oz); **Included Accessories:** One pair safety test leads, 9V battery, spare fuse and Operator's Manual; **Agency Approvals:** IEC1010-1, Cat.III; **CE**; **Warranty:** One year.