

## 228 Leakage Current Tester


### Model 228 Special Purpose AC/DC Milliammeter

Designed specifically to measure hazardous "Leakage Currents" or "Touch Currents" which may appear when a person touches the conductive surface of electrical or electronic equipment.

The 228 is designed around IEC990, ANSI and UL guidelines.



- True RMS Readings
- Reads in Measurement Indication Units (MIU) up to .005 MIU
- Output Allows Measurement of Peak Current in Non-Sinusoidal Wave Forms
- Let-Go, Reaction, and Burn Hazard Response Networks
- Detects dangerous AC & DC Leakage currents
- Includes Test Leads, Alligator Clips, Batteries and Manual

Ordering Information	
<b>Leakage Tester</b>	<b>Catalog Number</b>
228 Leakage Current Tester	40027
<b>Accessories</b>	<b>Catalog Number</b>
Test Leads w/Screw-On Alligator Clips	00125
Case, Black Padded Nylon Carrying	00834
Optional carrying case includes convenient storage pouch for test leads and Operators Manual	



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Specifications			
<b>The specifications apply to sinusoidal AC waveforms only. Accuracy is not guaranteed for non-sinusoidal or complex waveforms.</b>			
General	Reaction Response Network	Let-Go Response Network	Unweighted Burn Hazard Response Network
<b>Equivalent network component values</b>	Designed around IEC 990 (excluding fuse)		
<b>Equivalent measuring instrument load</b>	1 MΩ - 10 pF	1 MΩ - 62 pF	1 MΩ - 1 pF
<b>Ranges</b>	0.3, 1, 3, 10 M.I.U.	0.3, 1, 3, 10 M.I.U.	0-100 mA RMS
<b>Current accuracy</b>	±2% F.S. @ 60 Hz		
<b>Meter measurement method</b>	True RMS		
<b>Meter frequency response</b>	(Relative to ANSI C101-1992 or UL-1459 2nd edition)		
DC to 1 Hz	Pointer shall track within 5% of peak		
2Hz to 19Hz (Accuracy not supported)			
20 Hz to 200 KHz	±2% F.S.	±2.5% F.S.	±2% F.S.
200 KHz to 1 MHz	±2% F.S.	±2.5% F.S.	±5% F.S.
<b>Output sensitivity</b>	Full scale meter indication equals 1V RMS (Measured with a 1 MΩ , 12 pF load)		
<b>Output accuracy</b>	±2% of reading @ 60 Hz		
<b>Output frequency response</b>	(Relative to ANSI C101-1992 or UL-1459 2nd edition)		
DC to 50Hz	±2% of reading		
50 Hz to 100 kHz	±2.5% of reading	+2% / -3% of reading	±2% of reading
100 kHz to 200 kHz	±5% of reading		
200 kHz to 1 MHz	Accuracy not supported		
<b>Voltmeter range</b>	0-300 V (AC or DC)		
<b>Voltmeter accuracy:</b>			
DC to 1 Hz	Pointer shall track within 5% of peak		
2Hz to 19Hz (Accuracy not supported)			
20 Hz to 1KHz	±3% F.S. @ 60 Hz (Add ±1% for every additional 100 Hz)		
<b>Voltmeter frequency response</b>	DC to 1 KHz		
<b>Power requirements</b>	(2) 9V (NEDA 1604A) batteries		
<b>Physical</b>	7" x 5.25" x 3.125", 2-1/2 lbs (1.4kg), ABS plastic, fused input		
<b>Environmental</b>	27°C ±2° C, 70% non condensing relative humidity		
<b>Maximum operating range</b>	0° to 40° C		
<b>Specifications subject to change without notice</b>			
<b>Any discussion in this document regarding UL, ANSI or IEC specifications is for Reference purposes only.</b>			
<b>The input network utilized in the M228 is detailed in Figures 1 through 3 on page 4 of the Manual. The customer is advised to obtain the latest specification from the rating agency.</b>			
<b>NOTE: For specification information call ANSI at (212) 642-4900 or UL in Northbrook, IL at (847) 272-8800.</b>			