

# OSCILLOSCOPES

## CURRENT PROBES



3000-24-1-1  
only

## MODELS MN251T & MN379T



**CAT. #2132.59**  
Range (0.05 to 240) A



**CAT. #2153.02**  
Range (0.005 to 120) A



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## FEATURES

- Small, compact size
- True RMS measurements
- Large jaw opening accommodates conductor sizes up to 250 MCM
- 10 ft leads make measurements in hard to reach areas possible
- 40 Hz to 10 kHz response

## MINIFLEX® 3000-24-1-1



**CAT. #2132.63 (24 IN)**



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## FEATURES

- True RMS Measurements
- 24 in (~60 cm) sensor (*optional*)
- 10 ft (~3 m) leads makes measurement in hard to reach areas possible
- Measurement range of (0.5 to 3000) Arms
- Accuracy  $\pm 1\%$  of Reading  $\pm 0.25$  A
- No core saturation or damage if measured circuit is overloaded
- 20 kHz frequency response
- Low phase shift for power measurements
- Insensitive to DC: measures only the AC component on DC+AC signals
- Excellent linearity
- 9 V Alkaline battery typically offers 150 h of continuous operation

MODELS	MN251T	MN379T
ELECTRICAL		
Nominal Range	200 A	(5 / 100) A
Measurement Range	(0.5 to 240) A	(0.005 to 6) A; (0.1 to 120) A
Accuracy	3 % of Reading @ 5 A; 1 % of Reading @ 200 A	1 % of Reading @ 5 A; 1 % of Reading @ 100 A
Phase Shift	≤ 5 ° @ 40 A / ≤ 2.5 ° @ 100 A	≤ 4 ° @ 5 A / ≤ 2.2 @ 100 A
Overload	240 A for 10 min ON, 30 min OFF	
Frequency Range	40 Hz to 10 kHz	
Limit Operating Conditions	200 A permanently to 1 kHz; Derating above 3 kHz: 200 A x (1 / 0.333 F), F in kHz	
Working / Common Mode Voltage	600 Vrms	
Output Termination	10 ft (~3 m) BNC Lead	
Output Signal	1 mV/A <sub>AC</sub> (200 mV @ 200 A)	200 mV/A <sub>AC</sub> (1 V @ 5 A) & 10 mV/A <sub>AC</sub> (1 V @ 100 A)
MECHANICAL		
Operating Temperature	(14 to 131) °F (-10 to 55) °C	
Storage Temperature	(-40 to 158) °F (-40 to 70) °C	
Operating Relative Humidity	(10 to 35) °C (50 to 95) °F 85 % RH (without roll-off above 35 °C (95 °F))	
Maximum Conductor Size	0.78 in (20 mm)	
Dimensions	(5.47 x 2.00 x 1.18) in (139 x 51 x 30) mm	
Weight	6.5 oz (184 g)	
Polycarbonate Material	Polycarbonate with fiberglass charge, UL94 V0	
SAFETY		
Safety Rating	EN 61010-2-32	

Consult factory for NIST Calibration prices.

MODEL	3000-24-1-1
<b>ELECTRICAL</b>	
Range	(5 to 3000) A
Signal Output	1 mV/A
Frequency Range	10 Hz to 20 kHz with current derating
Influence Of Conductor Positioning	1.5 % typical, 3 % max
Influence Of Conductor Positioning In Sensor Against Handle	4 % typical, 6 % max
External Conductor Influence	(35 to 40) dB on contact
Power Supply	9 V Alkaline battery ( <i>included</i> )
<b>MECHANICAL</b>	
Sensor Diameter	Ø 0.2 (5 mm)
Sensor Length	24 in (~609 mm)
Max Conductor Size	7.6 in (~190 mm)
Connection Cable Length	10 ft (~3.04 M)
Drop Test	Per IEC 68-2-32
Vibration	Per IEC 68-2-6
Mechanical Shock	Per IEC 68-2-27
Weatherproofing	IP50
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	(14 to 131) °F (-10 to 55) °C
Storage Temperature Range	(-40 to 158) °F (-40 to 70) °C
Altitude	Operating: (0 to 6560) ft (2000 m), working voltage derating above; Non-operating: (0 to 39,370) ft (12,000 m)
<b>SAFETY</b>	
Safety Rating	EN 61010, 1000 V CAT III; 600 V CAT IV

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