

# AC CLAMP-ON METER

## Models F1N & F3N

Direct Replacement  
for Fluke  
Models 31 & 33

The Clamp-on Meter Models F1N and F3N are accurate True RMS current meters designed to measure from 300mA to 700A on harmonic rich and noisy conductors. They even measure on distorted waveforms where most clamp-on meters fail. Typical measurement environments include office equipment, high intensity discharge lights, variable speed drives and most all other electronic equipment. The Model F3N also measures Min/Max values and Peak values to 1000A for Crest Factor calculations — an indication of harmonic content. Both models measure Frequency, which is used to detect 3rd order harmonics (180Hz in 60Hz systems), set generator governor speed, or check output frequency on adjustable speed drives. The Models F1N and F3N are very rugged and designed to withstand daily professional use.



- True RMS AC Current measurements to 700A
- Frequency measurements to 10kHz
- Stores Min/Max and Avg for Current or Frequency for up to 24 hours (Model F3N)
- Fast Peak measurement (including a Max Peak) for Crest Factor in Harmonics (Model F3N)
- Smooth Function for 3 second running averages in Current and Frequency (Model F3N)
- Digital display with fast analog bargraph to show surge currents
- Display Current and Frequency simultaneously
- Auto and manual ranging modes
- Tapered jaws handle two 500MCM cables or one 1.5" (38mm) cable
- Audible beep confirms key functions and new Min/Max values
- Battery life indication displayed at power-up
- Sleep mode to conserve battery life
- IEC 1010, 600V, Cat. III and agency approvals
- Supplied with soft protective carrying holster



Test Equipment Depot  
99 Washington Street  
Melrose, MA 02176-6024

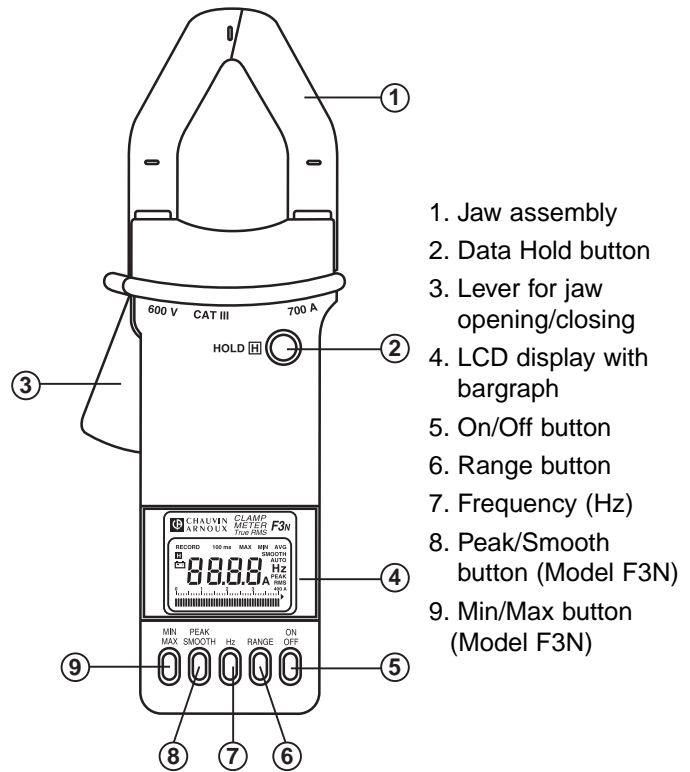
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800-517-8431  
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# SPECIFICATIONS

MODELS	F1N	F3N
<b>ELECTRICAL</b>		
<b>AC CURRENT (TRMS)</b>		
Measurement Range	0.3 to 400Arms (700A for Sine wave)	
Resolution	40A 400A	0.01A 0.1A
Accuracy	±2% Reading + 20cts; ±2% Reading + 2cts	
Smooth Function	-	3 sec running average
Min/Max & Avg	-	Records and displays min, max & average values
<b>PEAK MEASUREMENTS</b>		
Response	-	2ms
Range	-	99.9A, 1000A
Crest Factor	-	5 @ mid range
Resolution	40A 400A >400A	0.2A 2A 4A
Accuracy	-	±3% Reading + 3cts
<b>FREQUENCY</b>		
Range	0.5 to 10kHz	
Resolution	0.1Hz	
Accuracy	±0.2% Reading + 3cts	
<b>GENERAL</b>		
Digital Display	3½ digits LCD display, 4000-count for A, 10,000-count for Hz, (max. reading 9999)	
Analog Display	Fast 40-segment bargraph	
Power Source	9V Alkaline battery	
Jaw Opening	1.575" (40mm)	
Maximum Conductor Size	Ø Cable: One 1.5" (38mm); Two 0.95" (24mm) or 2 x 500MCM Bus Bar: 1.96 x 0.19" (50 x 5mm)	
Dimensions	9.11 x 3.82 x 1.73" (232 x 97 x 44mm)	
Weight	1.1 lbs (550g)	
Storage Temperature	40° to 158°F (-40° to 70°C)	
Humidity	40 to 75% RH	
Material	Case: Gray polycarbonate 920A, UL 94 V2; Jaws: Red polycarbonate 500R, 10% fiberglass, UL 94 V0 Lens: Crystal polycarbonate 920A, UL 94 VI	
<b>SAFETY</b>		
Agency Approvals	UL, CSA and GS	
Ratings	IEC 1010, 600V, Cat. III, CE Mark	



Model F3N measuring phase current on a 3 phase motor.



Models F1N & F3N in soft protective carrying holster

## ORDERING INFORMATION

## CATALOG NO.

AC Clamp-On Meter Model F1N (TRMS, 400A, Hz) ..... Cat. #1207.01

AC Clamp-On Meter Model F3N (TRMS, 400A, Hz, Peak, Smooth, Min/Max) ..... Cat. #1207.03

Includes soft protective carrying holster, 9V Alkaline battery and user manual



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