

# Digi-Meter

## Digital Voltmeter and Ammeter, 1500 Ampere RMS



### Description

For measuring secondary voltage and amperage output of welding power sources and generators

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The Digi-Meter is used to monitor welding voltage and amperage of constant voltage and constant current arc welding power sources, and engine-driven welding generators. This unit is not designed to measure primary voltage and amperage.

Typical applications for the Digi-Meter include test labs, field operations and repair shops. The digital meters are very accurate ( $\pm 1\%$ ) and can be used to check and monitor the welding output for setup, calibrating, test procedures, etc. Can be used in straight or reverse polarity.

The voltmeter displays the output voltage to the nearest tenth of a volt (0 to 100 volts). The ammeter displays the output amperage to the nearest ampere. The meters may be connected in either the positive (+) or negative (-) weld output cable.

When in the **standard** position, the meters will continuously display the existing amperage and voltage values of the welding operation. When the arc is broken, the meters will display zero amperes and zero volts (or open circuit voltage, depending on the power source). In **standard**, the meters always display the output of the power source.

The **hold** position maintains the meter display as follows: Once an arc is established, it will take approximately 10 seconds of welding time for the meters to stabilize, at which point they will hold the amperage and voltage values present at that time for the duration of the weld and for approximately 15 seconds after welding stops. When the 15 seconds have elapsed, the meters will clear to actual power source output (zero amperes and volts or zero amperes and open-circuit voltage, depending on the power source.) Restriking the arc before this 15 seconds has elapsed resets the meters and the selected meter operation resumes.

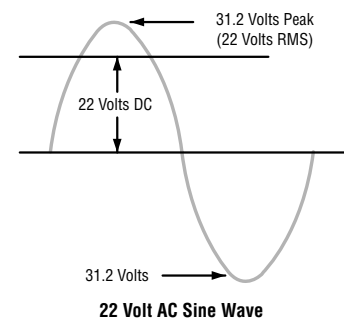
#### Features:

- 115 volt— included is a 8 ft (2.4 m) cord with plug
- Voltage sense lead— 20 ft (6 m) lead and alligator clip is included
- Lightweight
- Portable
- Maximum capacity: 1500 Amps at 100 Volts AC/DC, 100% duty cycle

### About RMS

RMS is the value of AC voltage or current that will generate the **same amount of heat** in a circuit containing only **resistance** that would be caused by a DC voltage or current of the same value. The effective value is called RMS (root-mean-square).

Note that the AC sine wave illustrated has a peak of 31.2 volts. This has the same effect as a straight line of 22 volts DC. An RMS meter connected to this circuit would show a reading of 22 volts. A DC meter will read zero.



### Specifications (Subject to change without notice.)

Dimensions			Weight	
Height: 6 in (152 mm)	Width: 11-3/4 in (298 mm)	Depth: 8-1/2 in (216 mm)	Net: 14 lb (6 kg)	Ship: 15 lb (6.8 kg)

### Ordering Information

Digi-Meter	#041 656	1500 Ampere RMS (AC/DC)
Meter Calibration	#041 770	Meters will be calibrated within 3% accuracy of meter reading.



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