

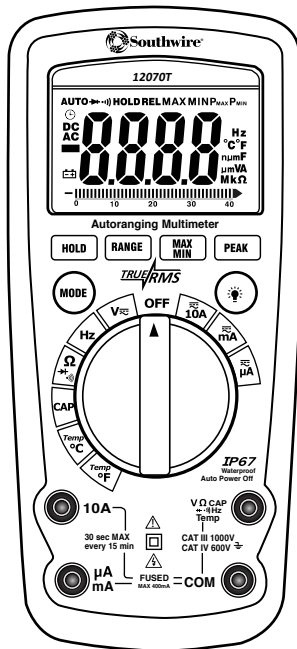


Southwire™

TOOLS & EQUIPMENT

Operating Instructions 12070T True RMS Multimeter

Instrucciones de uso
Multímetro True RMS 12070T



IP67
Waterproof



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12/14 Rev. 1
12070T manual

Introduction

The Southwire 12070T offers True RMS measurements for more accurate AC readings. Plus features include Temperature, Capacitance, Frequency, Min/Max record, Peak Hold and a CAT IV safety rating. Readings are displayed on a large backlit LCD with analog bargraph. This meter is fully tested and calibrated and, with proper use, will provide many years of reliable service.


WARNINGS

- Read, understand and follow the Safety Rules and Operating Instructions in this manual before using this meter.
- The meter's safety features may not protect the user if not used in accordance to the manufacturer's instructions.
- Ensure that the test leads are fully seated in the input jacks and keep fingers away from the metal probe tips when taking measurements.
- Confirm operation of test leads by checking resistance. The resistance reading should be 0.5Ω or less when the red and black probe tips are touching each other.
- Use only UL listed test leads with the proper safety category rating.
- Before changing functions using the selector switch, always disconnect the test leads from the circuit under test.
- Comply with all safety codes. Use approved personal protective equipment when working near live electrical circuits - particularly with regard to arc-flash potential.
- Use caution on live circuits. Voltages above 30 V AC RMS, 42 V AC peak, or 60 V DC pose a shock hazard.
- Do not use meter or test leads if they appear damaged.
- Verify meter's operation by measuring a known voltage.
- Do not use the meter in wet or damp environments or during electrical storms.
- Do not use the meter near explosive vapors, dust or gasses.
- When replacing the battery or fuses, be sure to secure the back cover panel and battery compartment door firmly to maintain the waterproof and dust proof integrity of the meter. Loose or overtightened screws, or an improperly seated o-ring may compromise the meter's water and dust ingress protection.
- Do not use the meter if it operates incorrectly. Protection may be compromised.
- Replace the battery as soon as the low battery warning appears.
- Do not apply voltage or current that exceeds the meter's maximum rated input limits.

Input Limits

Function	Maximum Input
Voltage AC or DC	1000VAC rms, 1000VDC : 1000VAC rms, 1000VDC
µA Current AC or DC	4000µA AC rms, 4000µA DC : 1000VAC rms, 1000VDC
mA Current AC or DC	400mA AC rms, 400mA DC : 1000VAC rms, 1000VDC
10A AC or DC	10A AC rms, 10A DC
Resistance, Continuity, Diode Test, Frequency, Duty Cycle	1000VAC rms, 1000VDC
Temperature	1000VAC rms, 1000VDC

General Specifications

Insulation:	Class II, Double Insulation
Overvoltage category:	CAT IV 600V, CAT III 1000V UL 61010 standards
Maximum voltage between any terminal and earth ground:	1000V DC/AC RMS
Display:	4000 counts LCD display, with analog bargraph
Polarity:	Automatic, (-) negative polarity indication
Over-range:	"OL" mark indication
AC Response	True rms
ACV Bandwidth	50Hz to 400Hz
Low battery indication:	A battery "  " symbol is displayed when the battery voltage drops below the operating level
Measurement rate:	2 times per second nominal
Auto power off:	Meter automatically shuts down after approx. 30 minutes of inactivity
Operating environment:	41°F to 104°F (5°C to 40°C) at < 80% relative humidity
Storage temperature:	-4°F to 140°F (-20°C to 60°C)
Relative humidity:	<80%
Altitude:	Operating: 7000ft (2000m)
Pollution degree:	2
Power:	One 9V battery, NEDA 1604, IEC 6F22 or equivalent
Dimensions/Weight:	6.8" x 3" x 2"/Approx. 0.83lb (172x 77x52mm/Approx. 375g)
IP67:	Dust protected and water protected (immersion up to 1m for up to 30 minutes)
Safety:	The instrument complies with IEC/EN 61010-1, 2nd edition