

REFNRG

Item Number 4689387

Clarity in power analysis
With REFNRG, you can make the power requirements of modern refrigeration, air conditioning and heat pump systems visible. This digital multimeter combines numerous electrical measurement functions in one device and provides the basis for assessing system operation, demonstrating energy savings and documenting measurement results via REFMESH.

Reliable measurement data is particularly important for inverter-controlled systems. True RMS technology enables accurate measurements even with complex electrical signals, giving you meaningful data for power analysis.

With AC current measurements up to 600 A and AC/DC voltage measurements up to 1000 V, REFNRG covers a wide range of electrical measurement tasks in everyday servicing. The device also measures AC power, resistance, capacitance, frequency and duty cycle. The LoZ input helps identify ghost voltages and prevent misinterpretation of measurement results.

Changes during measurement are also easy to detect: the 6000-count display updates the measured values three times per second, while the bar graph refreshes ten times per second. Automatic display backlighting ensures good readability in different lighting conditions.

Measurement data can be transferred wirelessly to REFMESH via BLE and documented digitally. This makes it easier to track measurements and supports the creation of informative service reports.

REFNRG is built for demanding everyday use. The housing with IP54 ingress protection is protected against dust and splashing water. The device also withstands drops from heights of up to two metres.

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- Analyse the power requirements of refrigeration, air conditioning and heat pump systems
- Versatile electrical measurements with a single device
- Accurate AC power measurements, even on inverter-controlled systems
- Reliable measurement results thanks to True RMS technology
- AC current measurements up to 600 A and AC/DC voltage measurements up to 1000 V
- Identify ghost voltages with the LoZ input
- Quickly detect changes in measured values with the dynamic bar graph
- Wireless measurement data transfer and documentation via REFMESH
- Automatic display backlighting for good readability
- Robust design with IP54 ingress protection and drop resistance up to 2 m

Technical Data

Material	Plastics
Colour	YellowRAL_SCM | green (RAL 6026)
Number of Pieces	1
RoHS Conformity	1
Operating Temperature Range	18 °C - 28 °C
Storage Temperature Range	-20 °C - 60 °C
Storage Humidity Range	< 80 % RH
Measuring Range	1000 V , 600 A
Protection Class	II
Ingression Protection	IP54
Battery	3 x AAA
Signal Range	300 m
Functions	AC power measurement DC/AC voltage measurement DC/AC current measurement Frequency and duty cycle measurement Temperature measurement Diode measurement Resistance, continuity and capacitance measurement Low-impedance voltage Wireless connection
Measured Variables	Temperature | current | voltage | other

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Certificate
ISO 9001 / ISO 14001

Packaging	Cardboard box
Sensor Type	K-type
Accuracy	DC 600 A / +/- (1.8 % +6) 1000 V / +/- (0.6 % +3) AC 600 A / +/- (1.8 % +6) 1000 V / +/- (1 % +6) LoZ ACV +/- (2.5 % + 6) Resistance (Ω) +/- (1 % +3) Capacitance (F) 60.00 mF / +/- (4 % +7) Frequency (Hz) +/- (0.1 % +6) Duty cycle (%) +/- (2.6 % +7)
Display	LCD
Counts	6000

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