

Specifications

Input Sockets	RED + BLACK -
Test Leads	2m long, heavy duty leads with crock clips (ACT CD4000TL)
Power Supply	Self powered by the battery under test (step-up inverter)
LED Indication	RED/Fail YELLOW/Testing GREEN/Pass
Acceptable Batteries	2.4V to 12V SLA, LI-ION, NICAD & NIMH
Minimum Battery Capacity	Greater than 1.5Ah
Current Drawn During Test	0.5Amp
Test Times	Normally under 6mins dependant on battery voltage
Heat Dissipation	Between 23 to 115 watts
Ambient Operating Temperature	-5 to 40C
Maximum Heatsink Temperature (Safety Trip Point)	100C
Input Protection	Reverse polarity and high voltage protection (18VDC Max)
Input Fuse	10Amp quick blow blade type
Enclosure	Flame retardant plastic
Size	167mm x 107mm x 65mm
Weight	1.5kg

2004/108/EC



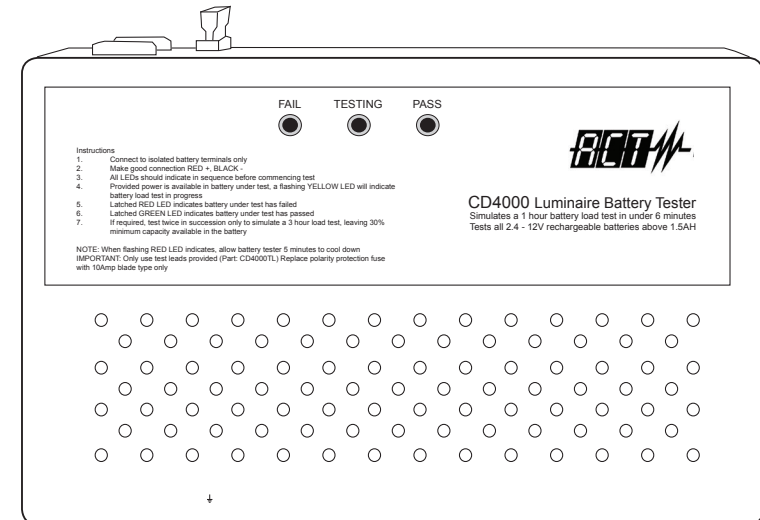
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Operating Instructions

CD4000

Luminaire Battery Tester



Take minutes not hours to test luminaire batteries used in stand-alone emergency lighting systems. The CD4000 performs 1 and 3 hour duration tests in minutes on 2.4V - 12V rechargeable Lead-acid, Lithium-ion, Nickel-cadmium and Nickel Metal Hydride batteries.

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WARNING: THE ACT CD4000 LUMINAIRE BATTERY TESTER IS DESIGNED TO TEST 2.4 - 12VOLT RECHARGEABLE BATTERIES WITH AN AMPERE HOUR CAPACITY ABOVE 1.5Ah. DAMAGE OR INJURY MAY RESULT IF CONNECTED TO ANY OTHER BATTERY OR VOLTAGE SOURCE. THE BATTERY MUST BE ISOLATED FROM THE CHARGING SUPPLY BEFORE TESTING. IF THE BATTERY TESTER IS USED IN A MANNER NOT SPECIFIED BY THE MANUFACTURER, THE PROTECTION PROVIDED BY THE EQUIPMENT MAY BE IMPAIRED.

Description

The ACT CD4000 Luminaire Battery Tester is designed to reduce the time taken to test 2.4 - 12V rechargeable Lead-acid, Lithium-ion, Nickel-cadmium and Nickel Metal hydride batteries commonly used in stand-alone emergency lighting luminaires.

The ACT CD4000 is powered by the battery under test. Once connected and after analysing the battery, it will constantly monitor the battery voltage and simulate a 1 hour battery duration test in under 6 minutes. This efficient method of testing saves valuable time and identifies low capacity or defective batteries in under 60 seconds. If required, test the battery twice in succession only to simulate a 3 hour duration test. This will leave a minimum 30% capacity available in the battery to operate the luminaire after fully testing.

Features

- Powered by the battery under test
- Simulates a 1 hour duration test in under 6 minutes
- Will identify a low capacity and defective battery within 60 seconds
- Tests 2.4 - 12V batteries above 1.5Ah used in stand-alone emergency lighting luminaires
- Fully automatic, simulates battery duration test with pass and fail LED indication
- Reverse polarity protection fuse
- 2m heavy duty test leads with crock clips

Test Procedure

IMPORTANT: Only use test leads provided with the battery tester. These heavy-duty leads are designed to carry specific current loads. If the leads become lost or damaged replace with (Part No. CD4000TL).

WARNING: ISOLATE BATTERY FROM THE CHARGING CIRCUIT BEFORE TESTING

Connect test lead clips securely to the sockets and battery terminals observing correct polarity. If connected the wrong way round, the reverse polarity fuse will instantly blow. If this occurs, replace with a 10Amp quick blow blade type fuse only.

- The 2.4 - 12V battery (above 1.5Ah) must be fully charged before testing
- All LEDs will indicate before commencing the test
- Flashing Yellow LED indicates test in progress
- Latched Red LED indicates battery FAIL
- Latched Green LED indicates battery PASS
- To simulate a 1 hour duration test, the battery should be tested ONCE only
- If required, testing TWICE in succession will simulate a 3 hour battery duration test, leaving a minimum of 30% capacity left in the battery
- A flashing RED LED indicates overheat, allow 5 minutes to cool down
- IMPORTANT: Make sure that the clips do not become detached from the battery interrupting the test. If this happens the battery must be fully recharged before re-testing
- On completion, attach a tested and passed label onto the battery indicating the date and signature of when it was tested.

Future Calibration

The CD4000 battery tester is microprocessor controlled and contains no internal adjustments for recalibration. Accuracy is maintained by using the test leads supplied only. If these leads become worn or damaged they can be replaced by ordering ACT Part No. CD4000TL. If the reverse polarity protection fuse is blown, it must be replaced with a 10Amp quick blow blade type fuse only.