

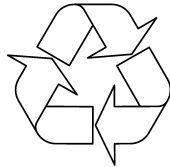
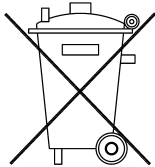
## Failing Battery

The battery can be charged and discharged many times but due to battery chemistry characteristics, the operation time decreases. When the battery powered operation time of your power meter becomes noticeably shorter, it is time to order a new battery.

To obtain a replacement battery, order Agilent part number E9287A.

In the unlikely event that your battery fails prematurely, contact you local Service Center to arrange a replacement. Refer to your power meter *User's Guide* for a list of Service Centers.

**WARNING:** This battery pack uses Nickel-Metal Hydride (NiMH) batteries.  
**Do not short circuit the battery terminals.**  
**Do not subject the battery to excessive heat.**  
**Do not dispose of by burning.**  
 Nickel-Metal Hydride (NiMH) cells are considerably more environmentally friendly than Nickel-Cadmium (NiCD) cells but you should follow battery safety guidelines.  
 Refer to your local country regulatory requirements on the disposal of Nickel-Metal Hydride (NiMH) batteries



**Print Date: November 2002**

**Manufacturing Part Number E4418-90054**



## Battery Information

Read This Before Using the Battery

**Agilent Technologies**  
**E4418B Option 001**  
**E4419B Option 001**  
**E4416A Option K01**  
**E4417A Option K01**  
**Power Meters**

### General Information

Please use this information to maintain your power meter battery in optimum condition and prolong its operating life.

This battery requires the power meter model's firmware release listed in the table below, or later, for accurate display of battery run time. Use with an earlier release of power meter firmware results in a failure during the power on self test and incorrect scaling of the battery run time.

Power Meter Model	Firmware Release
E4418B	A1.06.00
E4419B	A2.06.00
E4416A	A1.04.07
E4417A	A2.04.07

### Battery Storage

If left unused, a fully charged battery discharges over a period of time. A fully charged battery removed from a power meter and stored for a maximum of two months retains a low-level charge. When a battery in this low-charge state is fitted to a power meter, several hours charging may be required before the power meter indicates the battery is charging.

**CAUTION:** In extreme cases of discharge, when the battery has been stored in excess of two months, recovery may not be possible and a replacement battery is required. A battery that remains discharged after two days on charge can be assumed discharged beyond recovery - a replacement is required.

## Running Time

Typical running times and conditions as follows:

Power Meter Model	Backlight Off	Backlight On
E4418B	Up to 330 minutes	Up to 210 minutes
E4419B	Up to 240 minutes	Up to 150 minutes
E4416A	Up to 160 minutes	Up to 110 minutes
E4417A	Up to 75 minutes	Up to 45 minutes

**CAUTION:** Use the battery only for its intended purpose. Only use the Agilent battery option power meter models to charge the battery. Prolonged exposure to hot or cold reduces the capacity and lifetime of the battery. Try to keep the battery in an environment where the temperature is between 15°C and 25°C (59°F and 77°F). Nickel-Metal Hydride (NiMH) battery performance is particularly limited in temperatures below -10°C (14°F).

## Recommended Monthly Maintenance

If the battery is not installed in the power meter or is not subjected to frequent complete charge-discharge cycles, you should, on a regular monthly basis, carry out the following procedure:

1. Install the battery in the power meter. See the diagram on page 3.
2. Connect the power meter to an ac power source and fully charge the battery. Press **System Inputs**, **More**, **Service**, **More**, **Battery** to view the battery charge status.

**CAUTION:** Do not attempt to recharge the battery or operate the power meter from an ac power source while the power meter is contained in the carry case.

3. When fully charged, disconnect the ac power source and operate the power meter using the battery only until it powers down automatically.
4. Reconnect the ac power source and again fully charge the battery.
5. If not required, the battery may be removed and should be stored in an environment where the temperature is between 15°C and 25°C (59°F and 77°F). Read the Battery Storage section on page 1.

