

## 17.2 AC240

### 17.2.1 General Information

The battery module is used for central data buffering on the 2005 PLC (e.g. data and real-time clock for the XP152). It has two battery compartments for 9 V block cells.

Connection to the power supply module is made with a 40 cm long cable. The cable is connected to a 5-pin terminal block. A second 5-pin terminal block is included in the delivery. The two together replace the 10-pin terminal block on the power supply.

A single-width backplane is delivered with the battery module. The backplane is to be installed to the left of the main backplane. The battery module is inserted on this backplane and is therefore installed to the left of the power supply.

If a slot is free on the main backplane next to the power supply, the AC240 module can also be inserted there.

### 17.2.2 Order Data


| Model Number | Short Description   | Image   |
|--------------|---------------------|---|
| 0AC240.9     | 2005 battery module |  |
|              |                     |   |

Table 404: AC240 order data

### 17.2.3 Technical Data

| Product ID   | AC240  |
|--|--|
| C-UL-US Listed   | Yes  |
| Battery  | 9 V block cell                                   |
| Number of Battery Compartments                                       | 2  |
| Connection Cable<br>Length<br>Connection                             | 40 cm<br>5-pin terminal block, prewired          |
| Slot   | On backplane included in the delivery            |
| Buffer duration with two alkali manganese "Extra Longlife" batteries | See technical data for the processor module used |
| Dimensions   | B&R 2005 single-width                            |

Table 405: AC240 technical data

### 17.2.4 Battery Compartment

Two battery compartments are located behind the module door.

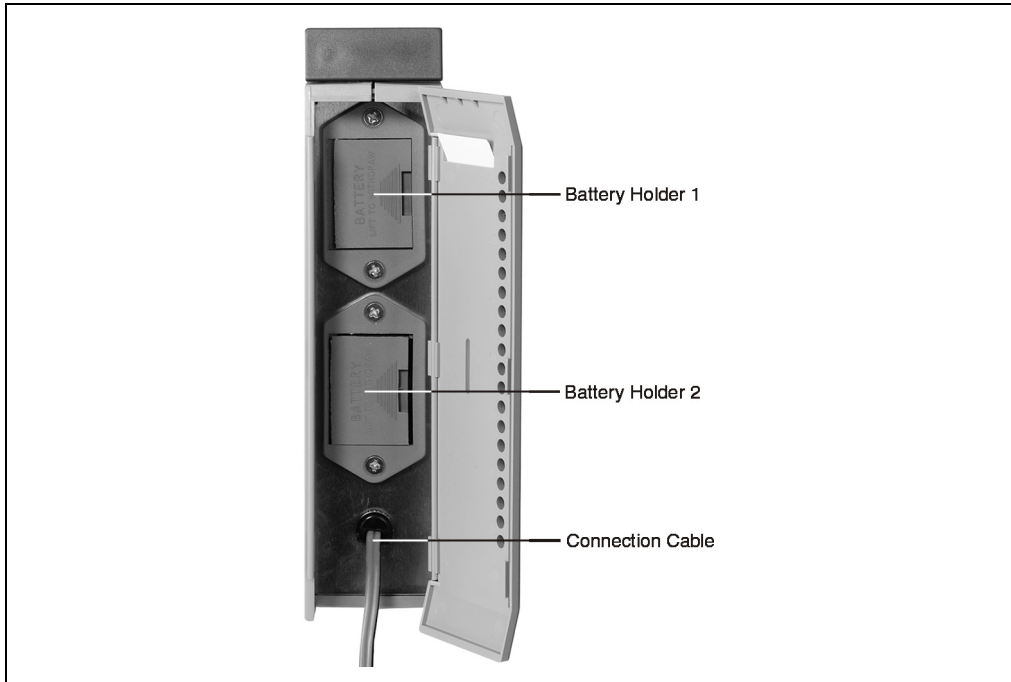


Figure 222: AC240 battery compartment

### **17.2.5 Backup Battery**

#### **Battery Change Interval**

Batteries installed in the AC240 battery module should be changed at the following interval:

Change interval: every 4 years<sup>1)</sup>

#### **Buffer Time**

Buffer time is reduced when more processors e.g. IP161, XP152 or IF260 are operated from the same backplane module and when the rechargeable battery is already empty.

Reductions factor = Number of all processor modules on the backplane

### **17.2.6 Changing 9 V Block Cells**

The product design allows the battery to be changed with the PLC switched on or off. In some countries, safety regulations do not allow batteries to be changed while the module is switched on. Therefore, B&R recommends the battery is changed when the power supply is switched off.

When changing the batteries, make sure that one of both batteries remains inserted (data buffering).

#### **Procedure for Changing the Battery**

- 1) Disconnect the power supply.
- 2) Touch the mounting rail or ground connection (not the power supply!) in order to discharge any electrostatic charge from your body.
- 3) Open the module door.
- 4) Open the upper battery compartment using a screwdriver. The screwdriver should be placed in the slot and by simultaneously levering it upwards and pulling at it, the compartment can be opened.
- 5) Remove the battery compartment.
- 6) Removed the used battery.
- 7) Insert the new battery with correct polarity.
- 8) Place the battery compartment in the module again.
- 9) Open the lower battery compartment using a screwdriver.
- 10) Remove the battery compartment.
- 11) Removed the used battery.

1) The change interval refers to the average life span and operating conditions and are recommended by B&R. This does not correspond to the maximum buffer duration.

- 12) Insert the new battery with correct polarity.
- 13) Place the battery compartment in the module again.
- 14) Close the module door.
- 15) Connect the lines to the power supply.



**Batteries are considered hazardous waste. Used batteries should be disposed of accordingly.**