

BTO-12B 使用前の注意 CAUTION BEFORE USE !

DS-7210 DIP SWITCH CONFIGURATION CAN BE DISPLAYED IN THE >> TEST MENU / MAINTENANCE SCREEN
[MENU] - [SYSTEM CONFIG] - [PRESET] - [TEST MENU] - [MAINTENANCE]

DIP-SW STATUS:

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1 - MEM R/W TEST  OFF
2 -                OFF
3 -                OFF
4 - BATTERY PACK  ON
5 - LTD HLX INFO  OFF
6 -                OFF
7 - AC FAIL BUZZ  OFF
8 - INSTALL MODE  OFF
=====
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DS-7210 SYSTEM SOFTWARE MUST BE **V03-04** OR LATER

- You can use BTO-12B, when the software version is V03-04 or later.
Check the DS-7200's software version with the following instructions:

Menu → **System Configuration** → **Pre-Set** → **Monitor Setup** → **Program Version**

- Turn the DIP SW4 ON under the DS-7200's maintenance cover, before using the BTO-12B (see fig.1)

	OA0-12B	BTO-12B
DIP SW[4]	OFF	ON

fig.1 DS-7200 Battery setting

- ※ If the setting is incorrect, the battery alarm displayed even if half the battery remaining or It will power off without any battery alarm. If the software version is V03-03 or earlier , contact our service representative.



Lithium-ion Battery Pack BTO-12B Operation Manual

DANGER

- This battery pack is intended for exclusive use with the DS-7200 system (or other specified equipment). Do not use with unspecified equipment. Otherwise, the performance and life cycle of the battery pack deteriorates, and may cause leakage, heating, fuming, ignition, and explosion of the battery.
- If the leaked solution of the battery gets into the eyes, do not rub the eyes. Wash thoroughly with clean water and immediately receive medical treatment from the doctor. If not treated soon, it may cause serious injury.
- If the leaked solution of the battery gets on to the skin or clothes, immediately wash down with rinse water. If not treated soon, it may cause serious injury.

DANGER

Please follow the precautions below, as improper use of the battery may cause heat, fire, explosion, or leakage.

- When installing the battery pack to the equipment, ensure the connector direction is correct.
- Do not use the battery pack with an equipment other than specified.
- The battery must be charged on specified equipment.
- Do not short the electrode or terminal, or remodel/disassemble the battery.
- Do not throw into the fire, heat, or leave/charge the battery under high temperature.
- Do not store the battery with metal such as clip or pin.
- The battery deteriorates with time. Do not use the deteriorated battery pack.
- Do not drive a nail in, hit with a hammer, step on the battery pack, or peel off or scratch the exterior tube.
- Do not use or leave the battery in a high temperature (80°C or above).
- Do not put the battery pack in microwave oven or a pressure cooker.

WARNING

- Do not apply strong impact or throw the battery pack.
- Do not sterilize the battery pack.
- Do not use / store the battery in reach of infants.
- Immediately stop using the battery if any abnormality is found during use.
- If the charging operation does not complete within specified time, immediately remove the battery pack from the equipment, and stop using the battery pack.

CAUTION

- If the message to charge the battery is displayed, switch to AC power supply.
- If an old battery pack is used, the battery operation may cease within 1 minute after the message to charge the battery is displayed.

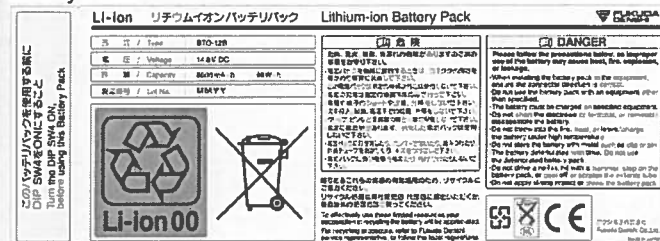
- When storing the equipment with the battery pack installed, fully charge the battery and store in a cool place.
- When storing the equipment for more than 120 days, remove the battery pack with charged condition, and store in a cool place.
- If not using the device for a long period of time, charge the battery every 3 months.

General Description

The BTO-12B Lithium-Ion Battery Pack is exclusively designed for use with the Fukuda Denshi patient monitor.

Warning Label

The following warning label is attached to the BTO-12B Lithium-Ion Battery Pack.



Specifications

Charge System Rechargeable Type, Lithium-Ion Battery
Weight Approx. 630g
Size 201.5 (W) × 24.7 (D) × 85.5 (H) mm (Max, without protrusion)
CELL Type Lithium-ion
Nominal Voltage 14.8V (3.7V/cell, 3-cell parallel, 4-cell series connected)
Nominal Capacity Approx. 6,600mA·h 98Wh
Charge Time Normal Charge 10 hours (During monitor operation)
Quick Charge 3 hours (During monitor standby)
Environmental Condition (When installed in the patient monitor)
Operating Temperature, Humidity 10 to 40°C, 30 to 85%
Temperature during Charging 15 to 35°C
Storage Temperature, Humidity -10 to 60°C, 10 to 95%
(without condensation)

Charging the Battery

The battery will be automatically charged by connecting the AC power supply cable with the battery installed in the patient monitor. The charging status and charging complete status will be displayed on the patient monitor.

Operation Time/Remaining Battery Indication

Standard Operation Time 3 hours or more
Remaining Battery A message to charge the battery will be displayed on the monitor approximately 20 minutes before the operation ceases.
Refer to the operation manual of the patient monitor for details.

Lifecycle of the Battery

The battery needs to be replaced within 1 year of usage or 300 times of charging/discharging.

The battery needs to be also replaced when the battery operation duration becomes short.
Refer to the operation manual of the patient monitor for details.

Battery Replacement

Users should not attempt to install or replace the battery pack. When using this battery pack, it is necessary to change the setting on the patient monitor.
For installation and replacement of the battery pack, contact our service representative.

About Recycling

To effectively use these limited resources, your cooperation in recycling the battery will be appreciated.
For recycling procedure, refer to Fukuda Denshi service representative, or follow the local regulations.



Europe
(EU, Switzerland,
Kingdom of Norway)



Holland

United States of America, Canada



Taiwan

Storing the Battery Pack (Battery Pack Only)

Store in an environment specified below without corrosive gas.

Storage Period	Storage Temperature	Storage Humidity
Within 30days	-20 to 60°C	65±20%
30 days to 90 days	-20 to 40°C	
90 days to 1 year	-20 to 30°C	



The device bears the CE label in accordance with the provisions of Medical Device Directive 93/42/EEC.



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