Battery Charge/Discharge System

HJ Series

HOKUTO DENKO

Battery Charge/Discharge System HJ Series offers various function-specific models applicable to various measurements for Battery basic research, Life test and Evaluation test.
HJ-SD8/SD8Y Series can provide the half-cell measurement by 3-electrode-method using the reference electrode and can provide the each characteristics evaluation test on positive and negative material (on independent four terminals and realizing the high input impedance)

HJ-SD8 Series

Features

1. Independent 8-channel charge and discharge control.
2. Minimum data sampling time interval is 10 ms.
3. Equipped with transient recorder function that collects the transient data at 10 ms.
   (at a moment of switching to discharge mode from charge mode during long-hour measurement.)
4. Equipped with CC-CV operation which has digital control for minimum overshoot.
5. Auto-select for current range.
6. The digital filter reduces noise.
   (It can function at the setting of more than 500ms data saving time interval.)
7. Equipped with Constant Power Control mode and Constant Resistance Control mode.
8. The system status, measurement progress and pre-set measurement conditions can see on one screen.
9. Capability to program maximum 20steps and 50patterns.
10. Equipped with jump function which repeats the continuous few patterns.
11. Equipped with High speed multi-step function :
    1step-20stages(max) and 1stage can set at 10ms(minimum)
12. Capability to control the maximum 16 units (128 channels)
    by using the client PC.

HJ1001SD8

Minimum Discharge Voltage can be set till -2V and can conduct the complete discharge test.
The PC connected to HJ series, it can perform the multi-channel simultaneous test and various battery characteristics data analysis.

HJ0610SD8Y

Features

1. 48ch system is able to store in a 19-inch rack.
2. This model is useing discharge energy for the charge energy of other channels by regenerative function of this system. (running cost is reduced greatly.)
3. 1PC System can control maximum 6 units (48 channels).
4. The software is same as HJ-SD8 series.

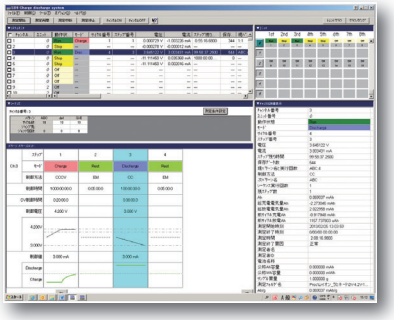
Specification

Type		HJ0610SD8Y
Channel	Number	8ch
	Setting	Independent setting every each channel
Setting range	Voltage	−2～6V
	Current	±10A
	Step time	0.1 sec ～100 days (resolution 0.1sec)
Current range		10A、1A、100mA
Control mode		CC, CC-CV, CP
Communication		Ethernet
Control accuracy	Voltage	±0.1%F.S.
	Current	±0.1%F.S.
Measurement accuracy	Voltage	±0.1%F.S.
	Current	±0.1%F.S.
Power voltage※		Single_phase
		AC200V,50/60Hz
Dimmension (W×H×D mm)※		436×263×632
Weight (one unit)※		25kg
Rack size (W×H×D mm)		600×1930×823 (without bolt)
Control PC		OS : Windows10 Professional 64bit

※ 8channels/1unit

Software Function Specifications

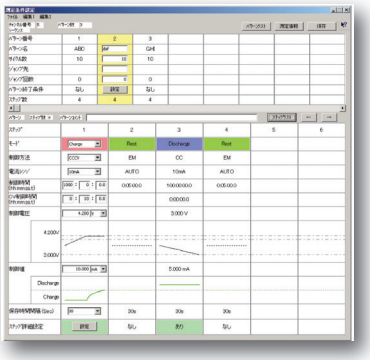
Control and Monitoring Screen



All the basic operations can be performed from this screen.
The screen consists of:

- Environment of each Monitor, Unit, Channel details:
  Showing the operating condition of each charge and discharge unit.
- Environment of each Sequence and Pattern:
  Showing the measuring conditions pre-set to each channel.

The trend graph indication, graph/dump, and measurement conditions setup are performed by clicking the button in a screen.



Measuring Condition Setting Function

The step and pattern include change conditions are created.
The step-finalizing conditions, pattern-finalizing conditions, and measurement-finalizing conditions are included in the changeover conditions.
The created conditions can be collectively copied to other channels by the copy&paste operation.

Trend Graph

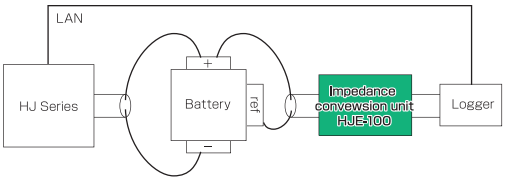
The trend graph of voltage/current/ electric-power can be displayed at intervals of 1 second.

Dump Indication

It can do the 'dump indication' showing the selected items from the saved data.
All measured data can be outputted in a text file.

Impedance conversion unit HJE-100

Impedance conversion unit HJE-100 is a unit to reduce the influence caused by the leak electric current when It measures the cell voltage using a logger.



Impedance conversion unit specification

Items		HJE-100
Input	Number of channels	8ch
	Voltage Range	±10V
	Input inpedance	$10^{11}\Omega$
	The insulation between the channel	DC100V $10^{8}\Omega$
	Connector	BNC receptacle
Power voltage		AC100V±10%
Power consumption		10VA
Dimensions (W×H×D mm)		330×62×171
Weight		2.5kg

Contents are subject to change without notice

HOKUTO DENKO

Head office & Tokyo office 4-22-13, Himonya, Meguro-ku, Tokyo, 152-0003, Japan
Osaka office 1-1-1, Nishinagasucho, Amagasaki-shi, Hyogo, 660-0805, Japan
Atsugi factory Uenohara3028, Kamiechi, Atsugi-shi, Kanagawa, 243-0801, Japan

E-mail (Tokyo) honsha@hokuto-denko.co.jp (Osaka) osaka@hokuto-denko.co.jp
HOMEPAGE https://www.meidensha.co.jp/hkt/

VEGETABLE OIL INK 2020-09NW0.2L(0.5L)