Data Setter TB-03

**Body Specifications**
- **Name of Each Component Options**
- **External Dimensions**
- **Power consumption**
- **Consumption current**
- **Ambient operating temperature**
- **Ambient operating humidity**
- **Ambient storage temperature**
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- **Ingress protection**
- **Mass**
- **Liquid crystal**
- **External memory**
- **Charging method**
- **Language support**

**Wireless Function (when connected to ELECYLINDER only)**
- **Wireless connection**
- **Wireless function**
- **Operation command/stop command**
- **Max. number of connectable axes**
- **Operation**
- **Wireless operating time**
- **Battery life**

**AC Adapter Common Specifications**
- **Power input voltage range**
- **Power supply current**
- **Consumption current**
- **Output voltage**
- **Charging time**
- **Cable length**

For Japan/North America/Thailand: UN318-5928
For China: UNZ318-5928
For Europe: UNE318-5928
For Korea: UNR318-5928

**Maintenance Parts**
- **Battery unit: AB-7**
- **Display touch panel**
- **Touch pen**
- **Touch pen storage section**
- **Power switch**
- **(for wireless connection)**
- **SD memory card slot**
- **AC adapter connection part**
- **Stop switch**
- **Cable connection port (for wired connection)**

**Power input**
- **Voltage range**

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Less wiring, simple, and swift with wireless connection. Now available: ELECYLINDER Data Setter TB-03!

**TB-03 Features**

1. **Set operating conditions with wireless connection**
   Position adjustment and operating conditions can be set from outside the equipment, even without a cable connection to the ELECYLINDER body.
   * Actuator operation requires cable connection.

2. **Status monitoring makes daily maintenance easier and shortens trouble recovery time**
   TB-03 can monitor the operating status of up to 16 axes while receiving wireless data from the ELECYLINDER. Error recovery time also can be shortened by troubleshooting with wireless communication.

3. **Supports position/program controller**
   Dedicated cables can connect the TB-03 to all the controllers. The same functions and operation of the previous TB-02 are available.

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**Features**

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3. Supports position/program controller
   - Dedicated cables can connect the TB-03 to all the controllers.
   - The same functions and operation of the previous TB-02 are available.
One unit supports all controllers, although the cable must be selected in accordance with the controller to be connected. Select the AC adapter for the appropriate operating environment.

**Body + cable + AC adapter set model**

<table>
<thead>
<tr>
<th>Connected controller</th>
<th>Model</th>
<th>AC adapter</th>
<th>For ELECYLINDER/position controller</th>
<th>For program controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECYLINDER</td>
<td>TB-03-C</td>
<td>(Blank)/C/E/K</td>
<td>① CB-TB3-C050</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N *2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Controller</td>
<td>TB-03-S</td>
<td>(Blank)/C/E/K</td>
<td>② CB-TB3-S050 + ③ CB-SEL-SJS002</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N *2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELECYLINDER</td>
<td>TB-03-SC</td>
<td>(Blank)/C/E/K</td>
<td>② CB-TB3-S050 + ③ CB-SEL-SJS002</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N *2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 No cable  *2 No AC adapter

**Cable single product model number**

<table>
<thead>
<tr>
<th>Connected controller</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECYLINDER</td>
<td>① CB-TB3-C050</td>
</tr>
<tr>
<td>Program Controller</td>
<td>② CB-TB3-S050</td>
</tr>
<tr>
<td></td>
<td>③ CB-SEL-SJS002 (conversion cable) *3</td>
</tr>
</tbody>
</table>

*3 Use with the ② cable when connecting to ASEL, PSEL, SSEL, or MSEL

**AC adapter single product model number**

<table>
<thead>
<tr>
<th>Connected controller</th>
<th>Model</th>
<th>Specification</th>
<th>Single product model number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECYLINDER</td>
<td>(Blank)</td>
<td>For Japan/North America/Thailand</td>
<td>UN318-5928</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>For China</td>
<td>UN318-5928</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>For Europe</td>
<td>UNE318-5928</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>For Korea</td>
<td>UNR318-5928</td>
</tr>
</tbody>
</table>

**Connection**

**Wireless connection (ELECYLINDER only)**

- Approx. 5m (guideline)
- (Communication distance varies depending on the ambient environment when operating)

* Connectable only for models with "WL" (wireless communication) option in the model number

Caution: Certification issues limit the countries in which wireless communication can be used. Contact our sales personnel for details.

**Wired connection (cable connection)**

- 8-pin Mini-DIN
- Half-pitch D-sub 26-pin
- D-sub 25-pin

*1 A gateway unit or PLC connection unit is required in order to operate RCP6S.
### Body Specifications

<table>
<thead>
<tr>
<th>Option</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power input voltage range</td>
<td>24VDC ±10% [supplied from controller]</td>
</tr>
<tr>
<td>Power consumption</td>
<td>3.6W or less</td>
</tr>
<tr>
<td>Consumption current</td>
<td>150mA (supplied from controller)</td>
</tr>
<tr>
<td>Ambient operating temperature</td>
<td>0 to 40°C (no condensation or freezing)</td>
</tr>
<tr>
<td>Ambient operating humidity</td>
<td>85% RH or less (no condensation or freezing)</td>
</tr>
<tr>
<td>Ambient storage temperature</td>
<td>-20 to 40°C</td>
</tr>
<tr>
<td>Vibration resistance</td>
<td>10 to 57Hz Amplitude, 0.075mm</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>IPX0</td>
</tr>
<tr>
<td>Mass</td>
<td>670g (body) + approx. 285g (dedicated cable)</td>
</tr>
<tr>
<td>Liquid crystal</td>
<td>7” TFT color WVGA (800 x 480)</td>
</tr>
<tr>
<td>External memory</td>
<td>SD/SDHC memory card interface mounted (1G to 32G)</td>
</tr>
<tr>
<td>Charging method</td>
<td>Wired connection with dedicated AC adapter/controller</td>
</tr>
<tr>
<td>Language support</td>
<td>Japanese/English/Chinese</td>
</tr>
</tbody>
</table>

### External Dimensions

- **Body**
  - Dimensions in mm: 200 x 115 x 34
- **AC adapter**
  - Dimensions in mm:...

### Wireless Function (when connected to ELECYLINDER only)

- **Wireless connection**: Bluetooth 4.2 Class 2
- **Wireless function**: Data setter/monitor function
- **Serial connection**: No
- **No. of connectable axes**: 16-axis
- **Operation**: Battery (AB-7) operation
- **Wireless operating time**: Max. 4 hours (battery driven)
- **Battery life**: Cycle durability 300 times

### AC Adapter Common Specifications

<table>
<thead>
<tr>
<th>Option</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power input voltage range</td>
<td>Single-phase 100 to 240VAC ±10%</td>
</tr>
<tr>
<td>Power supply current</td>
<td>0.4A max.</td>
</tr>
<tr>
<td>Consumption current</td>
<td>2.8A max.</td>
</tr>
<tr>
<td>Output voltage</td>
<td>5.9VDC (5.7 to 6.3V)</td>
</tr>
<tr>
<td>Charging time</td>
<td>Approx. 3 hours</td>
</tr>
<tr>
<td>Cable length</td>
<td>1500 ±100mm</td>
</tr>
</tbody>
</table>

### Name of Each Component

- **Display touch panel**
- **Stop switch**
- **Touch pen**
- **Touch pen storage section**
- **Power switch**
- **SD memory card slot**
- **AC adapter connection part**
- **Cable connection port (for wired connection)**

### Options

- **Strap**: STR-1
- **Spiral cable**: SIC-1
- **Grip belt**: GRP-2
- **Maintenance Parts**
  - Battery unit: AB-7

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