

# Touch Panel Teaching Pendant TB-02



With the 7-inch touch panel equipped, it is easier to see, and with new functions equipped, it is easier to use.

Anyone can operate it easily.



## **Features**

- By equipping a 7" full color touch panel, the buttons and letters became easier to see, and operability improved.
- Ones used for program controllers have functions equivalent to the previous model. Ones used for the position controllers are equipped with new functions such as a guide function, and it is easy to set each model with the interactive method.
- It can be used for both position controllers and program controllers. (Excludes models prior to RCP2 for the CON series and models prior to SEL-E/G)
- For the standard specification, a thinness of 25mm has been realized.
- Saving program/data into SD memory card.
- Screen shot function convenient for procedure manual creation and recording conditions has been equipped.



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TB-02-SC

TB-02-SC-SWR

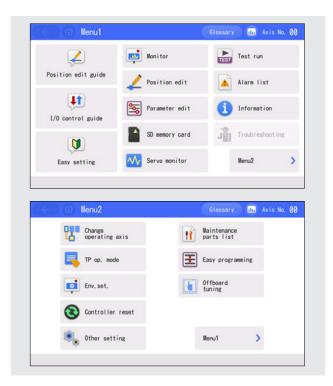
Pressing and holding the bottom right section of the screen allows you to take screen shots.

## Various new functions for easy operation and enhanced support functions (1~13 are functions for position controllers)

Main Menu A menu screen that is easy to select visually with the use of icons. Position Editing Guide A function that guides through position data setting method using an interactive method. I/O Control Guide A function that guides through the I/O operation method of the position controller using an interactive method. Simple Program Setting A function that the operation method, position, and speed can be input using an interactive method. **Trouble Shooting** A function that displays detailed alarm information when trouble occurs and the steps to deal with the trouble using an interactive method. Maintenance Parts List A function that displays the time for regular maintenance and the maintenance parts list for parts exchange at the time of malfunction. **Pulse-train Control Setting** A function that makes input easy by putting together the setting of pulse-train control related parameters on a special screen. Glossary of Terms A function that displays the explanation of terms in the catalog and terms related to position controller operation. A function for setting and monitoring the gateway unit in a gateway system for MCON/MSEP-C/RCP6S. Gateway Setting/Monitoring Simple Program Function A function for performing easy program operation such as repeating position and setting stopping time. A function for calculating the setting of the optimal control parameter (each type of gain) and cycle time by Off-board Tuning inputting the operation conditions. A monitoring function to check the actual operation condition with displays of waveforms. Servo Monitoring A function for selecting the startup screen and hiding the guide function icon of the main menu. Startup Screen Setting **Teaching Update** A function that lets you update software. A function for saving a bmp file of the screen shot into SD card by pressing and holding the bottom right section of the screen. Screen shot Large Monitor By equipping a 7" full color touch panel, the buttons and letters became easier to see, and operability improved. Multi-language Compatible Compatible with Japanese, English, and Chinese.

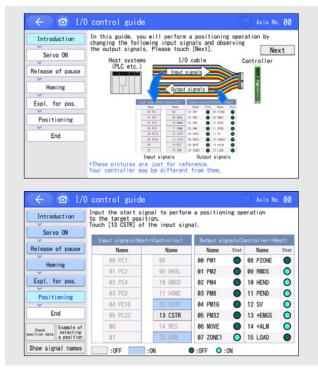
### 1 Main Menu

By using an icon for each menu, we made menu selection easier.



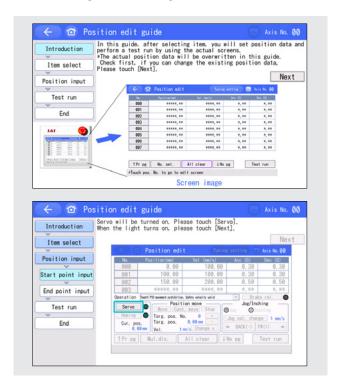
## 3 I/O Control Guide

A function that guides through the I/O operation method of the position controller using an interactive method.



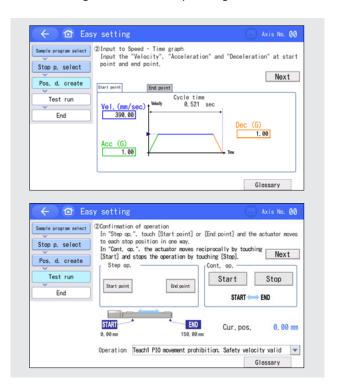
## 2 Position Editing Guide

A function that guides through position data setting method using an interactive method.



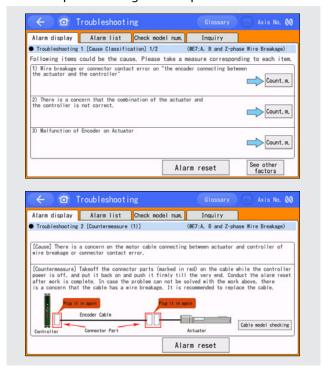
## 4 Simple Program Setting

This is a guide screen that allows easy position setting for even those operating for the rst time.



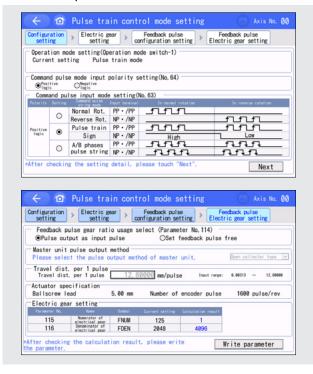
## 5 Trouble Shooting

Simply selecting YES/NO for trouble circumstances allows it to guide through the steps for dealing with the problem.



## 7 Pulse-train Control Setting

A function that makes input easy by putting the setting of pulse-train control related parameters on a special screen.



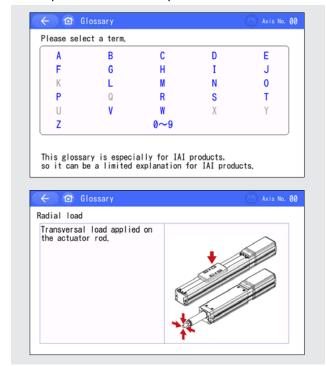
#### 6 Maintenance Parts List

The maintenance parts list can be checked by inputting the model.



## **8** Explanation of Terms

A function that displays the explanation of terms in the catalog and terms related to position controller operation.



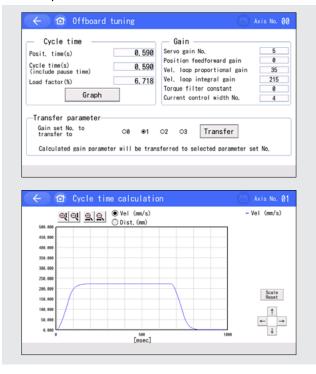
## 9 Gateway Setting/Monitoring

A function for setting and monitoring the gateway unit for MCON/MSEP-C/RCP6S.



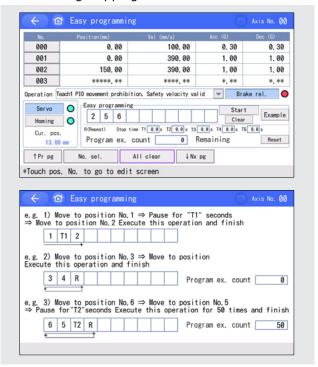
## 11 Off-board Tuning

A function for calculating the setting of the optimal gain and cycle time by inputting the operation conditions.



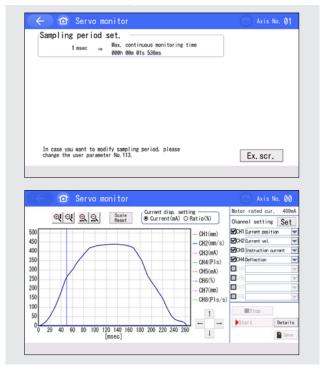
## **10** Simple Program Function

A function for performing easy program operation such as repeating position and setting stopping time.



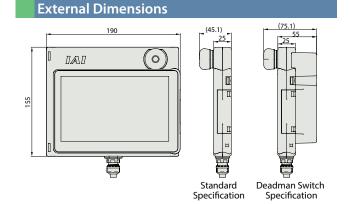
## **12** Servo Monitor

It is possible to display the graphs of the current position of the actuator, speed, electric current value variation, etc.



### **Specifications**

Rated voltage	24VDC
Power consumption	3.6W or less (150mA or less)
Ambient operating temp.	0 ~ 40°C
Ambient operating humidity	20 ~ 80%RH (Non-condensing)
Environmental resistance	IP20
Overseas standard	CE
Mass	470g (TB-02 box only) + 330g (5m cable)
	600g (TB-02D box only) + 330g (5m cable)
Cable length	5m (Standard cable is fixed to the box)



#### Models

The teaching pendant is compatible with every controller on P. 6, but please select the cable according to the controller.

\*The recommended color of the emergency stop switch is gray when the controller is a standard specification, and is red (model: -SWR) when the controller is a safety category compliant specification. (Note) Please contact us if you are using XSEL-J/K/JX/KX.

#### • Teaching Pendant + Cable as a Set

Type Model Number		Specification	Attached Cable	
Type	Model Number	Specification	For Position Controller	For Program Controller
	TB-02-SC	Standard specification (Gray stop switch)	①CB-TB1-C002	②CB-TB1-X002 + ③CB-SEL-SJS002
Models common to	TB-02-SC-SWR	Standard specification (Red stop switch)		
position and program	TB-02D-SC	Deadman switch specification (Gray stop switch)		
	TB-02D-SC-SWR	Deadman switch specification (Red stop switch)		
	TB-02-C	Standard specification (Gray stop switch)		
	TB-02-C-SWR	Standard specification (Red stop switch)	①CB-TB1-C002	
Models dedicated to position controllers	TB-02D-C	Deadman switch specification (Gray stop switch)		
	TB-02D-C-SWR	Deadman switch specification (Red stop switch)		
	TB-02-S	Standard specification (Gray stop switch)	②CB-TB1-X002 + ③CB-SEL-SJS002	
	TB-02-S-SWR	Standard specification (Red stop switch)		
Models dedicated to program controllers	TP O2D C	Deadman switch specification (Gray stop switch)		
	TB-02D-S-SWR	Deadman switch specification (Red stop switch)		

### • Teaching Pendant Only (No Cable Attached)

	Туре	Model Number	Specification
		TB-02-SCN	Standard specification (Gray stop switch)
	Models common to position and program controllers	TB-02-SCN-SWR	Standard specification (Red stop switch)
		TB-02D-SCN	Deadman switch specification (Gray stop switch)
		TB-02D-SCN-SWR	Deadman switch specification (Red stop switch)

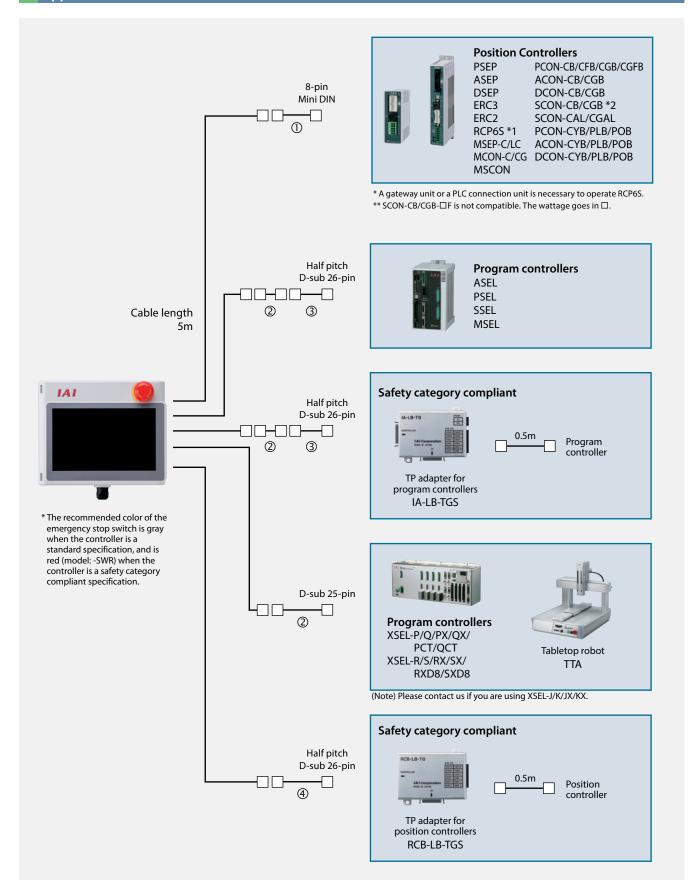
#### • Individual Cable Only

Type	Model Number	
Position controller connection cable	①CB-TB1-C002	
Program controller	②CB-TB1-X002	
connection cable 3CB-SEL-SJS002 (Adapter cable)*		
TP adapter connection cable	<b>④CB-TB1-GC002</b>	

<sup>\*</sup> Use with CB-TB1-X002 when connecting to ASEL, PSEL, SSEL, and MSEL.

#### • Options

Name	Option Code	Description
Strap	STR-1	Connected to the lower left part of the box.
Grip belt	GRP-1	Safety belt to hold the box by left hand.
Spiral cord	SIC-1	A cord which connects the box and the furnished stylus.

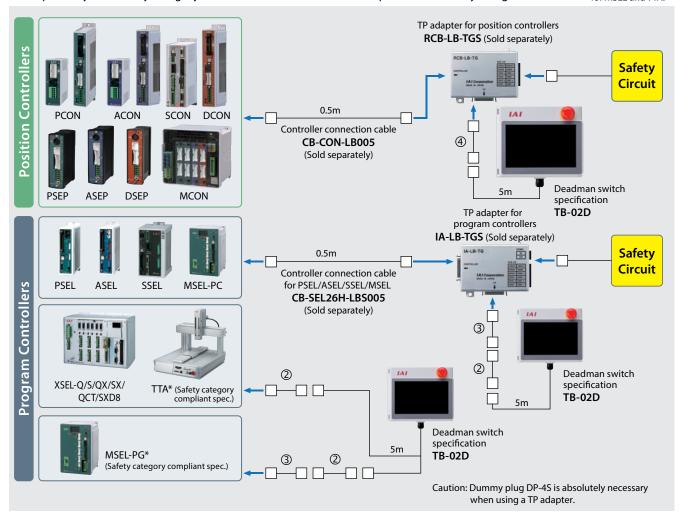


The version of the PC software that is compatible differs with each controller. Please contact us for details: www.intelligentactuator.com

#### **Safety Category Compliant**

• Compatibility with safety category will be constituted as below. Compatible with safety categories B to 4\*. 

\* Up to category 3 for MSEL and TTA.



\* Please refer to P. 5 for more information about  $\bigcirc \sim \bigcirc$ .

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