Controller

Combines high performance, unprecedented reliability, a host of integrated features and simple operation all in a compact design. The enhanced CPU capacity allows for more accurate trajectory control and faster application program execution.

E73

E94

E01/02/03

E40

E35

D60

America	E76/77	E97	E01/02/03
Europe	E70/71	E91	
Japan & Asia	E73/74	E94	
Features	The E7X controllers are extremely compact, and specially designed for small robot arms (RS03N, 05N, 05L, 06L and 10N). Though compact in design, these controllers offer high performance and expandability.	The E9X controllers are extremely compact, and specially designed for medium robot arms (Y-series, RS10L and RS20N). This compact size enables it to be installed vertically or horizontally in practically any location, such as under a conveyor or on an arm mount rack.	The E0X controllers are standard for world-wide use and available for multiple primary power supply voltages with a separate transformer unit. Achieve extremely compact design, compared to E2X/3X/4X controllers. The E03 controller, for use on palletizing robots, has an electricity regeneration function that reduces energy consumption.
Drive system	Full digital servo system	Full digital servo system	Full digital servo system
Teaching method	Easy operation teaching or AS language programming	Easy operation teaching or AS language programming	Easy operation teaching or As language programming
Teach pendant	Color LCD teach pendant	Color LCD teach pendant	Color LCD teach pendant
Memory capacity (MB)	8	8	8
I/O signals: External operation	Emergency stop, Hold etc.	Emergency stop, Hold etc.	Emergency stop, Hold etc.
I/O signals: Input (Channels)	32 (max. 96)	32 (max. 96)	32 (max. 96)
I/O signals: Output (Channels)	32 (max. 96)	32 (max. 96)	32 (max. 96)
Structure	Enclosed structure with indirect cooling system	Open structure with direct cooling system ∗1 (Option: Enclosed structure)	Enclosed structure with indirect cooling system
Mass (kg)	30	40	40/40/45

∗1: Enclosed structure with indirect cooling system In the case of E91

America	E30/32/33/34	E35/37	D60/61
Europe	E40/42/43/44	E45/47	
Japan & Asia	E10/12/13/14/20/22/23/24	E25/27	
Features	These controllers are optimum controllers for each region's primary power supply voltage and have high expandability and maintainability.	These controllers are for explosion-proof painting robots with a new explosion-proof teach pendant featuring a color LCD, Programming and editing work can efficiently be carried out from inside the explosion-proof paint booth.	The D6X controllers are for semiconductor robots. The D60 controller is for single robot and the D61 controller is for two robots. The D60 controller can control 7 axes and the D61 controller can control 12 axes, both come with compact packaging. The D6X controllers are world-wide use, meeting all SEMI and CE marking.
Drive system	Full digital servo system	Full digital servo system	Full digital servo system
Teaching method	Easy operation teaching or AS language programming	Easy operation teaching or AS language programming	Manual,semi-automatic, full-automatic teaching
Teach pendant	Color LCD teach pendant	Explosion-proof teach pendant Color LCD teach pendant	Small teach pendant
Memory capacity (MB)	8	8	4
I/O signals: External operation	Emergency stop, Hold etc.	Emergency stop, Hold etc.	Emergency stop, Hold etc.
I/O signals: Input (Channels)	32 (max. 128)	32 (max. 128)	16/16 (max. 32)
I/O signals: Output (Channels)	32 (max. 128)	32 (max. 128)	8/8 (max. 16)
Structure	Enclosed structure with indirect cooling system	Enclosed structure with indirect cooling system	Open structure with direct cooling system
Mass (kg)	∗2 145/180/195/180 ∗3	∗2 170	14/20

∗2: for America ∗3: for MX series

Teach pendant

Color LCD teach pendant for the E series controllers

The teach pendant boasts a significantly lighter body with an optimized weight balance that reduces the burden of teaching work. The operator can now switch on the motors and activate the cycle start all from the teach pendant. In addition, new features such as the easy-to-navigate screen and switch layout allow for a more convenient control system. Two information windows can be displayed simultaneously on the monitor screen, providing access to different type of information (e.g. positional information and signal information).

Explosion-proof teach pendant

The explosion-proof teach pendant features a color LCD with a large-sized touch screen that allows for teaching, editing, and monitoring of information such as current position and I/O signals in the painting area. It is possible to customize the interface panel according to user preference. The backlight provides a clear view of the screen in dark locations.