



PAINT CONTROLLER E35 and E37

Kawasaki has incorporated more than 40 years of experience as an robot industry leader into the development of the most technically advanced controller available. The E35/37 Paint Controller combines high performance, unprecedented reliability, process control features and simple operation, all in a compact design.



Explosion-Proof Teach Pendant

Large, color LCD
touch screen display



The arrangement
of keys has been
optimized through
extensive studies
of operator hand
movements

Equipped with
safety switches

ADVANCED TECHNOLOGIES

The high performance CPU provides extremely accurate trajectory control, high-speed program execution as well as extremely fast loading and saving of files. Two Ethernet ports are available for the user to connect directly to a laptop or to an Ethernet network to remotely save programs or monitor the process.

USER FRIENDLY OPERATION

The easy to use intrinsically safe teach pendant incorporates a low-voltage color LCD touchscreen as well as motor power and cycle start at your fingertips while programming inside the paint booth. Multiple information screens can be displayed simultaneously including spray condition and diagnostics. The intuitive teaching interface is simple to use.

ABUNDANCE OF FEATURES

The extremely powerful Kawasaki AS Programming Language allows for sophisticated motion and sequence control. The built-in paint process data bank is used to configure presets for flow rate, shaping air, and atomizing air settings.

EXPANDABLE

Three additional axes can be added for control of process equipment and a 7th axis rail. Numerous communication field buses are available for controlling peripheral devices. The Kawasaki K-Logic sequencer software can be combined with user-customized interface panels on the teach pendant.

EXPLOSION-PROOF TEACH PENDANT

The explosion-proof teach pendant is designed for use while in the painting area. Its intrinsically safe construction is Class 1, Zone 1, Group IIB & T4 certified.

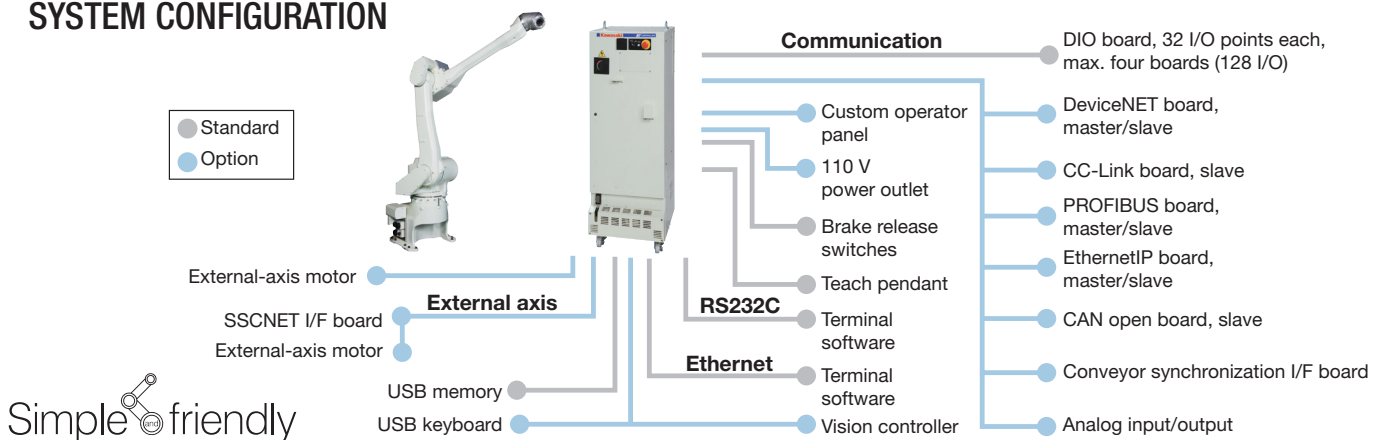
EASY MAINTENANCE

Modular components with limited cables allow for easy diagnostics and maintenance. On board self diagnostics minimizes troubleshooting and reduces MTR. Remote Diagnostics via the web server enables service support from anywhere in the world. The E35/37 controller's main circuitry modules, including the I/O boards and MC unit, are interchangeable with non-paint E controllers reducing spare parts inventory and order lead time. All standard circuitry and intrinsically safe components are now mounted inside the main controller enclosure, eliminating the bulky side box.

PAINT CONTROLLER SPECIFICATIONS

		STANDARD	OPTION
Model	E35 / E37		
Number of Controlled Axes	6 axes		Maximum 9 axes
Drive System	Full digital servo system		
Coordinate Systems	Joint, base, tool		External fixed tool point
Types of Motion Control	Joint/linear, circular interpolated motion		
Programming	Point to point teaching (Block Step) or AS Language based programming		
Memory Capacity	8 MB (approx. 80,000 steps)		
Dimensions	W500 x D550 x H1400 (mm)		
Structure	Self-standing main enclosure		
Mass	170 kg		
Body Color	Kawasaki Standard		
General Purpose Signals	External Operation	Motor power On, Hold, control power On/Off, circuit Off, etc.	
	Input	32 discrete channels	up to 128 discrete channels
	Output	32 discrete channels	up to 128 discrete channels
Operation Panel	E-Stop switch, teach/repeat switch, control power light		Customizable application interface panel Traditional operation panel
Cable Length	EP Teach Pendant	10 m	5 / 15 / 20 / 25 m
	Harzardous	3 m	5 / 7 / 10 / 15 / 20 / 25 / 30 m
	Non-Harzardous	3 m	1 / 5 / 7 / 10 / 15 m
Environment Conditions	Ambient Temperature: 0 ~ 45° C Relative Humidity: 35 ~ 85 % (no dew, nor frost allowed)		
Power Requirements	AC440-480V ±10%, 60Hz, 3ø		AC200-220V, AC380-415V, AC440-480V, AC515V, AC575V ±10%, 50/60Hz, 3ø
	Class-D earth connection (earth connection dedicated to robots), leakage current Maximum 100mA		
Teach Pendant	Intrinsically safe construction, 7.2 inch color LCD display with touch-panel, E-Stop switch, teach lock switch, enabling switch (Cycle start, motor-on, hold/run, errors, and error reset are activated from the teach pendant)		
Auxiliary Storage Unit	USB memory		USB keyboard
Interface	USB, Ethernet (100BASE-TX), Serial RS232C		Field buses

SYSTEM CONFIGURATION



Assembly • Cutting • Dispensing • Grinding • Handling • Inspection • Packaging • Painting • Palletizing • Polishing • Tending • Welding

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Paint Controller - REV02/14
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