

# ABB IRC5P Alone Controller datasheet

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## IRC5P – Controller Upgrade

Bring the latest paint controller technology to your paint shop

If your paint shop needs to be more productive and you wish to keep your IRB 5400 S4P (6 or 7 axis version) in the paint line, ABB has the solution for you. The IRC5P controller is a small and affordable upgrade which can improve your paint line.



### Powered by IPS

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### Designed for painting

IRC5P comprises the new Ex-certified FlexPaint Pendant and the next level in paint cell supervision - RobView 5.

The system automatically adapts to the paint application configuration according to the actual installation. This helps you set up and configure RobView, RobotWare Paint, PLC mapping and IPS.

### Backward compatibility

Only the IRB 5400 S4P generation , 6 and 7 axis models are compatible with the stand alone IRC 5P, old cables can be connected directly to the new controller. Some paint equipment may need to be upgraded.

### Increased uptime

Automatic start-up diagnostics, fast error log filtering with Pareto diagrams and process diagnostics help to reduce the time for fault tracing and keeps the system up and running.

### Manage your installation

With RobView 5 you can manage your paint installation, whether it is one or many robots, visualize the complete paint process, and operate and supervise your paint robot cell.

### Test your paint equipment

The FlexPaint Pendant has an intuitive paint user interface with a seamless integration of the paint process. You use it to test and calibrate your paint process equipment, to jog and program the robot, and to test your paint programs.

Power and productivity  
for a better world™



# IRC5P

## Stand Alone Controller Upgrade

### Specification

Dimensions	W: 725 mm, D: 710 mm, H: 1450 mm
Weight	180 - 200 kg (depending on options)
Protection degree	IP54
Ex classification	II 2 G Ex ib px IIB T4 II 2 G Ex ib px IIB T4 II 2 G Ex ib px IIB T4
Ambient temperature	
- Operation	0°C to +48°C (recommended max. <30°C)
- Storage / transport	-25°C to +55°C
Relative humidity	max. 95% non-condensing
Color specification	Grey RAL7035
Airborne noise level	< 70 dB (A) Leq (according to 98/37/EEC)
Controller software	RobotWare Paint Powered by IPS
Programming language	RAPID

### Electrical

Mains voltage	200 - 600 V AC, three-phase, +10%, -15%
Mains frequency	48.5 to 61.8 Hz
Transformer	6.7 kVA
Power consumption	Stand by < 300 W Production < 700 - 2200 W (average*)
Backup battery	7000 h (for absolute measurement)
Electrical safety	According to international standards

\*Depending on manipulator model and speed

### Machine interface

Available I/O boards	Analog, Digital, Relay, 120 VAC I/O boards Encoder and Sync board Process (PIO) board
Fieldbus support	Interbus-S, Profibus, Profinet, CC Link, DeviceNet, Ethernet IP
Network	Ethernet FTP/NFS
Backup interface	USB connection and Ethernet

### PC Tools

RobView 5	Paint cell supervision and operation
ShopFloor Editor	Off-line path- and process tuning using 3D graphics
RobotStudio Paint	3D simulation and programming of the paint cell

### Upgrade and modification require

Some of the robot electronics components and cabling will require some modification or upgrade to the latest compatible version



### User interface

Operator panel	on cabinet
Programming unit	FlexPaint Pendant, Exi certified, soft keys, dual joystick, graphical 3.5 inch backlit TFT color screen. Asian language support. Safety EMY stop, live handle / enable device, test mode hold-to-run.

### RobView 5

A basic version of RobView 5 is bundled with all IRC5P paint robots, free of charge\*. It is an affordable graphical user interface for low budget installations. However, it is scalable and expandable with plug-in options for large and advanced installations.

\*Requires activation

### RobView 5 features included in the basic version:

- IPS monitor and data trending
- Production view with process data
- One user-configurable screen, with buttons, gauges, LED panels, IPS curves, etc. in the toolbox
- Job queue handling
- Basic editor for program-, brush-, and color change files
- Advanced diagnostics to visualize status and errors, Pareto diagrams
- Automatic background file transfer, replication and change log
- Support for common communication protocols (FTP/OPC)

### Expandable RobView 5 options:

- Multiple user-configurable screens with toolbox
- 3D Program editing using ShopFloor Editor

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