IRC5P is the newest generation paint robot control system from ABB. It is specifically designed for the paint shop.

**Powered by IPS**
IRC5P integrates our high speed process control, IPS, with our superior motion technology. This provides full control of the paint process, cuts down cycle time and saves paint as well as the environment.

**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.

**Increased uptime**
Automatic start-up diagnostics, fast error log filtering with Pareto diagrams and process diagnostics help you 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.
IRC5P
Paint robot control system

Quality painting made easy

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 D Ex pD 21 T65°C
FM Class I,II, Div.1, Group C,D,G 136°C
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

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

Information may be changed or updated without notice

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