

## Mitsubishi RV-2A



**Manufacturer:** Mitsubishi  
**Model Number:** RV-2A  
**Web Address:** [www.rixan.com](http://www.rixan.com)

The Mitsubishi RV-2A robots are 6 axis robot arms featuring 64-bit RISC/DSP controller technology, and load capacities of 2.0 kg.

### Run - Robotic Arm: Commands

▶ **Open( robot )** - Opens the connection with the remote robotic arm.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
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▶ **SetControl( robot, controlOn )** - Enables/disables control of the robotic arm.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
controlOn	Boolean	True: enables the control. False: disables the control.

▶ **SetServo( robot, servoOn )** - Turns on/off the servo power to the robotic arm.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
servoOn	Boolean	True: turns on the servo power. False: turns off the servo power.

▶ **SetIntVariable( robot, variable, value )** - Sets the value for the specified integer variable in the loaded program.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
variable	String	Variable name.
value	Integer	Value for the variable.

▶ **SetFloatVariable( robot, variable, value )** - Sets the value for the specified float variable in the loaded program.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
variable	String	Variable name.
value	Float	Value for the variable.

▶ **SetBooleanVariable( robot, variable, value )** - Sets the value for the specified boolean variable in the loaded program.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
variable	String	Variable name.
value	Boolean	Value for the variable.

▶ **SetStringVariable( robot, variable, value )** - Sets the value for the specified string variable in the loaded program.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
variable	String	Variable name.
value	String	Value for the variable.

▶ **LoadProgram( robot, programName )** - Load the specified program.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
programName	String	Program name which specifies which program to load.

▶ **RunProgram( robot, programName )** - Run the specified program.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
programName	String	Program name which specifies which program to run.

▶ **MoveSafePosition( robot )** - Moves the robotic arm to the safe position.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
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▶ **MoveJointPosition( robot, position )** - Moves the robotic arm to the specified position using joint interpolation.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
position	String	Specifies the position name for the move.

▶ **MoveLinearPosition( robot, position )** - Moves the robotic arm to the specified position using linear interpolation.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
position	String	Specifies the position name for the move.

▶ **SetRelativeSpeed( robot, speed )** - Sets the speed for the arm movements as a percentage value.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
speed	Integer	Specifies the speed for the arm movements as a percentage value (1% unit). Range of values: <b>1</b> to <b>100</b> .

▶ **SetRelativeAcceleration( robot, acceleration, deceleration )** - Sets the acceleration/ deceleration as a percentage value with respect to the predetermined maximum value.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
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acceleration	Integer	Specifies the acceleration for the arm movements as a percentage value (1% unit). Range of values: <b>1</b> to <b>100</b> .
deceleration	Integer	Specifies the deceleration for the arm movements as a percentage value (1% unit). Range of values: <b>1</b> to <b>100</b> .

▶ **OpenHand( robot, handNumber )** - Open the specified robotic arm hand.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
handNumber	Integer	Specifies which robotic hand to open. Range of values: <b>1</b> to <b>8</b> .

▶ **CloseHand( robot, handNumber )** - Close the specified robotic arm hand.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
handNumber	Integer	Specifies which robotic hand to close. Range of values: <b>1</b> to <b>8</b> .

▶ **ReadInputSignal( robot, inputNumber )** - Reads the specified input signal.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
inputNumber	String	Input signal number represented as hex value ranging from 0 to 7FFF.

▶ **WriteOutputSignal( robot, outputNumber, outputValue )** - Writes the specified output signal.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
outputNumber	String	Output signal number represented as hex value ranging from 0 to 7FFF.
outputValue	String	Output signal value represented as hex value.

▶ **Reset( robot )** - Resets the robotic arm and the slot.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
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▶ **ResetError( robot )** - Reset the error code on the robotic arm.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
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## Run - Robotic Arm: Errors

🔥 **ArmError( errorCode )** - Error occurred during command execution.


errorCode	Integer	Error code number.
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## Abort - Robotic Arm: Commands

▶ **Stop( robot )** - Stop the robotic arm and the current program.

robot	Integer	Robot mechanism. Range of values: <b>1</b> to <b>8</b> .
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## Abort - Robotic Arm: Errors

 **ArmError( errorCode )** - Error occurred during command execution.

errorCode	Integer	Error code number.
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