

CONTROLLER TECHNICAL SPECIFICATION



DC MINI Controller



AC MINI Controller 2kW



AC Controller 5kW

Features

IP classification	IP54		IP54		IP54	
Operating temperature	0-45°C		0-45°C		0-45°C	
Operating humidity	90%RH(non-condensing)		90%RH(non-condensing)		90%RH(non-condensing)	
I/O Ports	(DI) 16	(DO) 16	(DI) 16	(DO) 16	(DI) 16	(DO) 16
	(AI) 2	(AO) 2	(AI) 2	(AO) 2	(AI) 2	(AO) 2
	High speed pulse input 2		High speed pulse input 2		High speed pulse input 2	
I/O power supply	24V/1.5A		24V/1.5A		24V/1.5A	
Standard communication	I/O、TCP/IP、Modbus_TCP/RTU		I/O、TCP/IP、Modbus_TCP/RTU		I/O、TCP/IP、Modbus_TCP/RTU	
Optional communication	CC-Link IE Field Basic、Profinet、Ethernet/IP、EtherCAT		CC-Link IE Field Basic、Profinet、Ethernet/IP、EtherCAT		CC-Link IE Field Basic、Profinet、Ethernet/IP、EtherCAT	
Communication Board Optional Configuration	MiniPCI Express - real-time Ethernet PC Board		MiniPCI Express - real-time Ethernet PC Board		MiniPCI Express - real-time Ethernet PC Board	
Software development kit	C#/C++/Python/ROS/ROS2		C#/C++/Python/ROS/ROS2		C#/C++/Python/ROS/ROS2	

Physical

L*W*H	245*180*44.5mm (No protrusions)		245*180*44.5mm (No protrusions)		245*180*89mm (No protrusions)	
Weight	2.044 kg (Weight without wire)		2.5kg (Weight without wire)		3.6kg (Weight without wire)	
Materials	Galvanized plate		Galvanized plate		Galvanized plate	
Power supply	30-60VDC		100-240VAC / 10A / Single-phase / 50-60Hz		100-240VAC / 16A / Single-phase / 50-60Hz	
Output power	48VDC / 104Amax		48VDC / 42Amax		48VDC / 104Amax	
Applicable Robot	FR3/FR3-WMS/FR3-WML/FR5/FR5-WML/FR10/FR16/FR20/FR30		FR3/FR3-WMS/FR3-WML/FR5/FR5-WML/FR10/FR16		FR20/FR30	

Note: The FR3-C&FR5-C control cabinet is integrated into the robot base.