### Basic Specifications of Robot Controller

	<i>FD21</i>			
Outside dimensions	W440×D542×H640 (mm) (Excluding projections)			
Mass	FD19-JV/FD19-JL/FD19-JS/FD19-JVP/FD19-JLP: Approx. 54kg			
	FD19-JX: Approx. 57kg			
Ambient conditions	Temperature: 0–45°C, Humidity: 20–80%RH (Non-condensing)			
Primary power	3-phase 480/240 VAC ±10%, 50/60 Hz with integrated transformer			
Power consumption	Manipulator			Power capacity*2
	NB6, NV8, NB4S, NV6S			1.5kVA
	NB6L, NV8L, NB15, NV25, NA20, NB4LS, NV6LS, NV20S			2.4kVA
	NH5, NS3			1.0kVA
	NV50			5.5kVA
	NV80, NV100, NV130			4.1 kVA
	NV166, NV210			7.0kVA
Grounding	Ground the robot controller separately (grounding resistance of 100 ohms or less).			00 ohms or less).
I/O control over external equipment*1	Number of signals	Input/output 8 points each. Extension of input and output is allowed respectively up to 72 points (Optional).		
	Input specifications	Connect relay contact with a minimum applicable load of 5mA or less at 24VDC, or open-collector device with a leakage current of 1mA or less.		
	Output specifications	Relay board 8/8	24VDC/100VAC, up to 1A (Minimum applicable load [reference]: 5mA at 24VDC)	
		I/O board	Open-collector device whose rated current is 0.1A or less at 24VDC $\pm$ 3V	
Memory capacity	100 million steps (by PTP instruction in a single mechanism)			
Number of task programs	9,999			
External memory I/F	USB flash drive (Optional)			
Color	10GY9/1, Munsell scale			

\*1 The number of I/O points can be extended to 2048 by adding an optional field bus (DeviceNet, CC-Link, EtherNet/IP, etc.). \*2 Varies by application & moving pattern.

In accordance with DAIHEN's policy to make continuing improvements, design and/or specifications are subject to change without notice and without any obligation on the part of manufacturer.

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Easy connection and cooperation with peripheral devices





CONTROLLER

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