Basic Specifications of Robot Controller

	FD19			
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	200/220VAC, 3-phase (+10%, -15%), 50/60Hz			
Power consumption	Manipulator			Power capacity*2
	NB6, NV8, NB4S, NV6S			1.5 kVA
	NB6L, NV8L, NB15, NV25, NA20, NB4LS, NV6LS, NV20S			2.4 kVA
	NH5, NS3			1.0 kVA
	NV50			5.5 kVA
	NV80, NV100, NV130			4.1 kVA
	NV166, NV210			7.0 kVA
Grounding	Ground the robot controller separately (grounding resistance of 100 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		
		I/O board Open-collector device whose rated current is 0.1A or less at 24VDC ± 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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"Connectivity"

Easy connection and cooperation with peripheral devices





NEW Robot Controller FD19 CONTROLLER

"Simple & Quick Operation"

Simpler operation to shorten new production startup

🖌 Arc Weldir

The limitless potential of extensive "connectivity"

The versatility to "CONNECt" with facilities, devices and people







Revolutionary Ease of Use



Tablet-like operation



swipe operation



Complies with the latest international safety standards.

Supports multiple safety control standards for emergency stop: Cat. 4, PLe, and SIL3.

Safer working environment

- RMU* constantly monitors robot movement.
- · Restricts robot movement when worker is