

Nais > PLC



**Ultra Small PLC**

NAIS / Matsushita Electric Works established a new world standard look of PLC, "Slim" PLC. Starting from 10 I/O to 32 I/O. The CPU is only 25(w) x 90(h) x 70(d)mm. This is about 1/4 the size of the traditional bulky PLC style called "Brick". FP0 saves your precious panel space and money.

**Two axes motion control**

FP0 has simultaneous 2 axis trapezoidal motion control. Programming is very simple. All you have to do is to set the low speed, high speed, acceleration time, target position and you are ready to do motion control. You can control up to 9.5KHz total.

**Expandability**

FP0 is still expandable up to 128 I/O for transistor output and 64 I/O for relay output. It is also possible to mix and match with relay, transistor, analog, and networking units



**PID and Auto Tuning**

Up to 16 loops of PID and auto tuning are built in this small size PLC. The FP0 uses floating point math for its PID calculation which is more accurate than an integer PID. The PID values can be easily calculated by simply turning on the auto tuning feature. The I-PD algorithm is also available to offer slower and smoother control for sensitive applications.

Request	Features
<ul style="list-style-type: none"> <li>• CPU Units</li> <li>• Expansion I/O Units</li> <li>• Analog I/O Combo Unit</li> <li>• 8 ch Analog Input Unit</li> <li>• Communication Units</li> <li>• Profibus-DP Interface</li> <li>• Accessories</li> <li>• Cables</li> <li>• Software</li> </ul>	<ul style="list-style-type: none"> <li>• 2 Axis Motion Control</li> <li>• PID with Auto Tuning <sup>2</sup></li> <li>• 4 High Speed Counters</li> <li>• 1ms Resolution Timers</li> <li>• Run Time Edit</li> <li>• Fast PWM Output <sup>2</sup></li> <li>• Removable Terminals <sup>1</sup></li> <li>• Floating Point Math <sup>2</sup></li> <li>• 2 Serial Ports <sup>3</sup></li> <li>• Calendar Timer Clock <sup>4</sup></li> </ul> <p>1. Relay type only                  2. Ver 2.0 or above                  3. Optional port                  4. 10K CPU type only</p>

**HQ**

Up to 128 I/O  
Up to 6 AD, 3 DA

2.7K Prog / 1.6K data  
5K prog / 6 K data  
10K prog / 16K data

Auto Tuning  
PID , I-PD control  
2 axis built in motion  
4 high speed counter  
Run time edit  
Removable screw term  
Floating Point math

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**HQ**

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