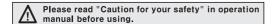
## 2-Axis board type programmable motion controller

#### **■**Features

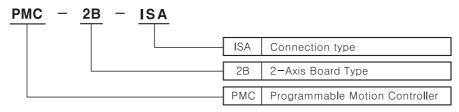
- •Available to control 2-axis independent AC servo motor and stepping motor
- ●PC-ISA Type Card
- •Interpolation on circular/linear, bit pattern/continuous/ac deceleration drive
- •Output pulse Max. 4Mpps
- •Countable and comparable the real position
- •Compatible with Windows 98, NT, 2000, XP
- •Apply the library which can be operated in C++







## ■Ordering information



### Specifications

Model		PMC-2B-ISA
Control axis		2-Axis
ISA bus interface		Data bit width : 16 bit
		I/O possession address : 16 bit
		Interrupt: Available to connect IRQ 3, 4, 5, 6, 7, 10, 11, 12, 14, 15
Shortcut function	2-Axis linear interpolation	Interpolation function: Axis -8,388,607 ~ +8,388,607
		Interpolation speed: 1 ~ 4 MPPS
		Interpolation position accuracy : Max. $\pm 0.5 LSB$ (Within the whole interpolation range)
	Circular interpolation	Interpolation range : Axis -8,388,607 ~ +8,388,607
		Interpolation speed: 1 ~ 4 MPPS
		Interpolation position accuracy : Max. $\pm 1$ LSB(In interpolation range)
	2-Axis bit pattern interpolation	Interpolation speed: 1~4MPPS(Dependent only on CPU data setup)
	Etc.	Constant linear speed, Continual interpolation, Transmit interpolation STEP(Command, External signal)
		Output circuit : Differential operating Line driver output
		Output speed range: 1PPS~4MPPS
		Output speed accuracy : Max $\pm 0.1\%$ (For setting value)
		Speed rate : 1 ~ 500
Driver pulse output (X, Y common specifications)		S-curve ac.acceleration ascend rate: 954 ~ 62.5×10 PPS/SEC (At rate=1) (Rate of increase) 477×10³ ~ 31.25×10⁶ PPS/SEC² (At rate=500)
		Ac.acceleration rate : $125 \sim 1 \times 10^6$ PPS/SEC $^2$ (At rate=1) $62.5 \times 10^3 \sim 500 \times 10^6$ PPS/SEC $^2$ (At rate=500)
		Super high speed: 1 ~ 8,000PPS (At rate=1) 500 ~ 4×10 <sup>6</sup> PPS/SEC <sup>2</sup> (At rate=500)
		Drive speed : 1 ~ 8,000PPS (At rate=1) 500 ~ 4×10 <sup>6</sup> PPS/SEC <sup>2</sup> (At rate=500)
		Output pulse : 0 ~ 268,435,455(Fixed quantity drive)
		Speed curve: Constant speed/Linear ac.acceleration speed / Parabola S-curve ac.acceleration speed drive
		Decelerate mode of fixed drive / Manual deceleration
		Output pulse on Driving, Available to change drive speed
		Selectable dependent 2pulse / 1pulse direction type
L		Selectable logic level

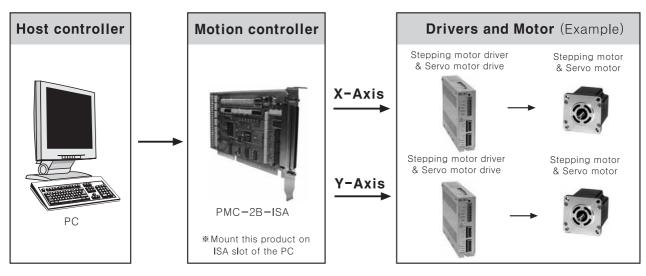
N-19 Autonics

# 2-Axis Motion Controller

# Specifications

Face desired and a	Input circuit:High speed photo-coupler input, Able to connect with differential operating line drive
Encoder input pulse	2phase pulse(Up/Down pulse input)
D: 1	Logic position counter(For output pulse) count range: -2,147,483,648 ~ +2,147,483,647
Direction counter	Real position counter(For input pulse) count range: -2,147,483,648 ~ +2,147,483,647
	COMP+ register position campare range : -2,147,483,648 ~ +2,147,483,647
Camanana na miatan	COMP- register position campare range : -2,147,483,648 ~ +2,147,483,647
Compare register	Status output and signal output the magnitude with position counter
	Available operating as a software limit
Interrupt function (Except for interpolation)	<ul> <li>• 1drive pulse output</li> <li>• On changing position counter ≥ COMP+</li> <li>• On changing position counter ≥ COMP-</li> <li>• On changing position counter &lt; COMP-</li> <li>• Starting fixed speed on ac.decelaration drive</li> <li>• On changing position counter &lt; COMP+</li> <li>• Completing fixed speed on ac.decelaration drive</li> <li>• On drive ending</li> </ul>
Drive shortcut by	Able to drive fixed quantity • continual speed of +/- direction by EXPP, EXPM signal
external signal	Input circuit : Photo-coupler + Integral filter circuit, Able to connect mechanical contact
E decelerate stop /	INO ~ 2square axis 3points
Immediate stop signal	Input circuit : Photo-coupler + Integral filter circuit
Input signal for	ALARM(alarm), INPOS(Complete position set)
servo motor	Input circuit : Photo-coupler + CR integral filter circuit
Output signal for	OUTO ~ 5square axis 6points(Multiple 4 combines MULT CHIP shortcut signal and terminal)
common	OUTO ~ 7square axis 8points(Dual purpose of driver status output signal and terminal)
	Output circuit : Open collector output
Signal output on drive	<ul> <li>DRIVE (Driver pulse output)</li> <li>ASND(Ascend speed) CNST(Constant speed) DSND(Descend speed)</li> <li>CMPP(Position ≥ COMP+), CMPM(Position ⟨ COMP-)</li> <li>ACASND(Accelerated ascend speed), ACDSND(Accelerated descend)</li> </ul>
Overrun limit signal	Direction +, - each one
input	Input circuit: Photo-coupler+ CR integral filter circuit
Emergency stop	ENGN 1point in all axis, make drive pulse of all axis immediately stop
signal input	Input circuit : Photo-coupler + CR integral filter circuit
Etc.	Operating temp. range : 0 ~ 45°C (Non-freezing and non-dew condition)
	Power supply: 5DCV±5% (Max. Current consumption 700mA)

#### System



(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Production stoppage models & replacement

Autonics N-20