

CP1A

Control Panel

Reciprocating Compressors

MAYEKAWA
MYCOM



MYPRO-CP1A Control Panel

<https://americas.mayekawa.com/mna>

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Controller for MYCOM reciprocating & mini-screw compressors

MYPRO-CP1A is a microprocessor based controller to safely operate MYCOM reciprocating compressor and mini-screw compressor models: WA, WB, WJ, WBHE, C, K, L, 10S, 11S, 1290, 1410 HK and M.

CP1A is a UL certified panel that contains 7-segment LED alphanumeric characters used for the function, data and capacity displays. The keypad provides easy setup operation to select compressor model, number of solenoid valves required, units of measurement for pressure and temperature display and control operation mode. With the use of electronic sensors and solid state relays to substitute the conventional mechanical switches, gauges and mechanical relays, reliability is drastically improved.

STANDARD FEATURES

- Simple installation and maintenance
- Maximum of 5 capacity control solenoid valve outputs
- Compressor capacity is automatically controlled to meet target suction pressure using single-point or multi-point set-point options
- Automatic, manual and remote operation modes
- Compressor alarm annunciation with remote output
- Compressor auto-staging control is available with multiple CP1A units
- Key-lock function prohibits change of setup value
- Manual start and stop of compressor and capacity control is available
- Self-diagnosis function of abnormal sensors
- RS-485 communication option provides MYCOM and MODBUS communication protocols

SPECIFICATIONS

General Specifications

Supply Voltage	85 - 264 VAC	
Power Consumption	30 VA	
Temperature Ratings	Operating	+41°F (+5° C) to +122°F (+50°C)
	Storage	+14°F (+57° C) to +122°F (+50°C)
Ambient Humidity	85% RH or less (non-condensing)	
Enclosure Rating	Nema 1	
Dimensions	16"H x 16"W x 6"D (406mm H x 406mm W x152mm D)	

IO Specifications

Analog Input	Pressure Sensor	1 to 5 VDC	Max. 4
	Temperature Sensor	100 Ω Platinum	Max. 2
Contact	Contact Input	Dry N.O. contact	3 points
		Dry N.C. contact	1 point
	Contact Output	Dry N.O. contact	3 points
		Dry N.C. contact	1 point
		Voltage N.O. contact	5 points
Contact Load	Maximum 264VAC, 0.7A for both dry contact and voltage contact		

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