Digital Indicating Controller with Ramp/Soak

JCL-33 Series

Powerful 1/32 DIN Controller available today...at the lowest price!

Shinko North America Ltd.
www.shinkona.com

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Standard Features

Model JCL
1/32 DIN (48mm x 24mm)

• Structure
IP66 protective construction.
Black enclosure color.

• Programmable Alarms
Units feature standard single alarm output.

• Multi-Input
Units feature multi-input capabilities:
10 thermocouple types, 2 current input,
4 voltage input and 1 RTD type.

• Ramp/Soak Function
Up to 9 Ramp/Soak segments.

• Dual Use
This instrument is easily switched between controller or transmitter by simple key operation.

Input Range Table

Input Type		Input Range	
Thermocouple	K	-200 to 1370°C	-320 to 2500°F
		-199.9 to 400.0°C	-199.9 to 750.0°F
	J	-200 to 1000°C	-320 to 1800°F
	R	0 to 1760°C	0 to 3200°F
	S	0 to 1760°C	0 to 3200°F
	B	0 to 1820°C	0 to 3300°F
	E	-200 to 800°C	-320 to 1500°F
	T	-199.9 to 400.0°C	-199.9 to 750.0°F
	N	-200 to 1300°C	-320 to 2300°F
	PL-II	0 to 1390°C	0 to 2500°F
	C(w/Re5-26)	0 to 2315°C	0 to 4200°F
RTD	Pt100	-200 to 850°C	-300 to 1500°F
		-199.9 to 850.0°C	-199.0 to 999.9°F
	JPt100	-200 to 500°C	-300 to 900°F
		-199.9 to 500.0°C	-199.9 to 900°F
DC current	4 to 20mA DC		
	0 to 20mA DC		
DC voltage	0 to 1V DC	-1999 to 9999*	-199.9 to 999.9
	0 to 10V DC	-19.99 to 99.99*	-1.999 to 9.999
	1 to 5V DC		
	0 to 5V DC		

* For DC current and DC vlotage inputs, scaling and decimal point place are changeable.
* For DC current input, 50Ω shunt register (sold separately) must be installed.

• Low Cost
Most advanced price/performance package available.

• PID Autotune
All units feature as standard full function third generation PID Autotune. This feature minimizes process overshoot under the most demanding applications.

• Large LED Display
All units feature bright display of either PV or SV, red 4 digits.

• Digital Input
Change between setpoints ((SV1, SV2).

• Safety Approvals
UL, cUL and CE Safety Approvals.

• Warranty
All units manufactured to strict ISO standards and offer full 3 year manufacturers warranty.

Shinko is an **ISO 9001** facility

General Specifications

Display	PV/SV ----- Red Digits 8.7(H) x 5(W)mm
Input	Thermocouple ---------- K, J, R, S, B, E, T, N, PL-II, C(W/Re5-26) External resistance: 100Ω or less (However, for B input: 40Ω or less) RTD ---------- Pt100, 3-wire system (Allowable input wire resistance per wire: 10Ω or less) DC Current ---------- 0 to 20mA DC, 4 to 20mA DC Input impedance: 50Ω (Connect shunt resistor 50Ω between input terminals.) Allowable input current: 50mA or less (When shunt resistor 50mA is used) DC Voltage ---------- 0 to 1V DC Input impedance: 1MΩ or greater. Allowable input voltage: 5V or less. Allowable signal source resistance: 2kΩ or less. 0 to 5V DC, 1 to 5V DC, 0 to 10V DC Input impedance: 100kΩ or greater. Allowable input voltage: 15V or less. Allowable signal source resistance: 100Ω or less.
Accuracy (Set • Indicating)	Thermocouple ---------- Within ±0.2% of each input span ±1 digit or ±2°C (4°F) whichever is greater However, R or S input 0 to 200°C (0 to 400°F): Within ±6°C (12°F) B input 0 to 300°C (0 to 600°F): Accuracy is not guaranteed. K, J, E and N input less than 0°C (32°F): Within ±0.4% of input span ±1 digit RTD ---------- Within ±0.1% of of each input span ±1 digit or ±1°C (2°F) whichever is greater DC current and DC voltage --- Within ±0.2% of of each input span ±1 digit
Input Sampling Rate	0.25 seconds