



K Series (Compack I & II)

Models: 303-K (31/2"), 503-K (41/2"), **603-K** ($5^{1/2}$ "), **371-K** (Edgewise)

- ▲ UL Recognized with suffix "KU" (except Model 371-K)
- ▲ Temperature & non-temperature models
- ▲ Continuous indication
- ▲ Infinite noise rejection
- ▲ Easy installation all connections at rear terminals
- Solid-state circuitry
- Single and double setpoints
- Rectangular & stackable edgewise models
- Customized Scales available

Optical Compack Controllers operate on an optical principle associated with the meter mechanism. A light source (incandescent lamp) and a photo-resistive cell combination are positioned by the setpoint mechanism. An opaque vane is attached to the meter mechanism so that when the indicating pointer reaches the setpoint the vane intercepts the light from the source, causing a sharp change in resistance of the photocell. The resistance change is used to actuate a relay driver circuit for control of an external load. The response characteristics of D'Arsonval mechanisms automatically provide filtering of the input signal, making Compack Controllers immune to line noise and transient surges. Optical type controllers are the best choice for applications in electrically noisy environments.

> DC Ranges DC Microamperes

DC Milliamperes

DC Amperes

DC Millivolts

K Series Specifications								
Specifications		DC Ranges		AC Ranges (Rectifier Type)		Pyrometer		
		Current	Voltage	Current	Voltage	1 yrometer		
Accuracy		±2%	±2%	±3%	±3%	±2%		
Tracking		Optional	Optional	Optional	Optional	N/A		
Balance		±1%	±1%	±1%	±1%	±1%		
Repeatability	Taut band	< 1/4%	< 1/4%	< 1/4%	< 1/4%	< 1/4%		
	Pivot-and-Jewel	2%	2%	2%	2%	N/A		
Resistance Tolerance		±20%	±5%		< 10V ±20% ≥ 10V ±5%	N/A		
Overload Capacity	1 Second	1000%	≤ 100V 1000% > 100V 200%	150%	150%	N/A		
	Continuous	150%	120%	150%	150%	N/A		
Calibration Frequency				60 Hz	60 Hz	N/A		
Overshoot (maximum)		20%	20%	20%	20%	N/A		
Response Time (maximum)	Sensitivity ≥50µa	1.5 sec	1.5 sec	1.5 sec	1.5 sec	N/A		
	Sensitivity <50µa	3 sec	3 sec	3 sec	3 sec	N/A		

120VAC 50/60Hz standard; 220VAC, 240VAC, 12VDC, 24VDC and 28VDC optional Load Relay Rating: SPDT 215VA @ 120VAC DPDT Output Relays optional

Effects of shock, vibration, humidity and temperature are equal to or better than ANSI C39.1-1981. Safety (dielectric test, leakage and other hazards): instruments are equal to or better than ANSI C39.5-1974. The above tolerance limits apply to the standard ranges listed in this bulletin. Special instruments may vary from these limits. Rated circuit to ground voltage = 250 Vrms (350 Peak) except 50VDC on Pyrometer models.

A	Made in the USA
	the USA

DC Volts	1 to 500			
Process Ranges				
DC Milliamperes	1-5 4-20			
DC militalliperes	10-50			
DC Volts	1-5 0-10			

5 to 1000

1 to 1000 use 50mV

external shunt

5 to 1000

0-10

AC Ranges (Rectifier Type)				
AC Microamperes	100 to 1000			
AC Milliamperes	1 to 1000			
AC Amperes	1 to 50			
AC Millivolts	250 & 500			
AC Volts	1 to 500			

Thermocouple Pyrometer, RTD Pyrometer, Tachometer & Frequency Input Consult Factory

K Series Dimensions						
Model	Height	Width	Depth*			
303-K (3 1/2")	3.13	3.28	5.50			
503-K (4 1/2")	4.27	4.71	5.50			
603-K (5 1/2")	4.36	5.75	5.50			
371-K (edgewise)	1.43	3.43	9.65			

Dimensions are in inches.

* Depth = front of panel to end of terminals. See price sheet for part numbers.

Contact Factory for more information & dimensional drawings.