

### BLC2000-721

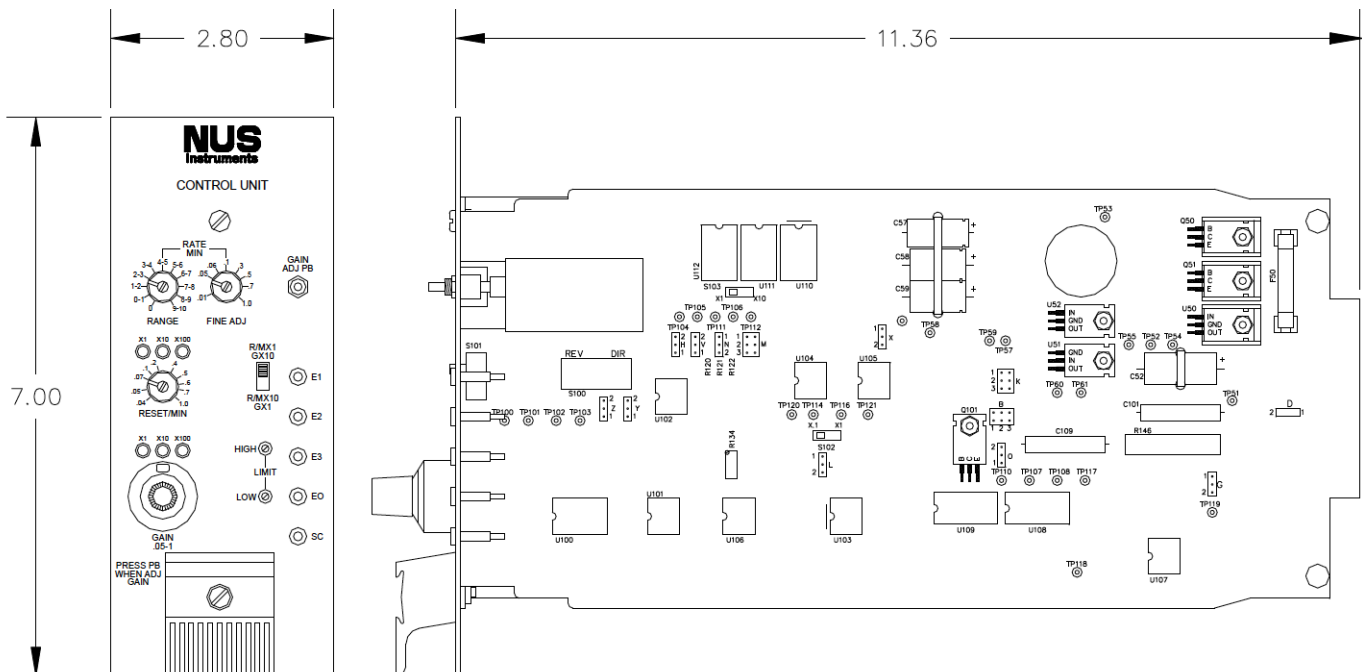
The BLC2000-721 Blind Controller replaces the obsolete Bailey 721 controller module while retaining the functions of the Bailey module.

The BLC2000-721 is used to control process variables at desired values as determined by set-point values. Provisions are included which allow the Controller to accept an externally generated "error" signal instead of an internally generated error signal, where the "error" is the difference between process variable and set-point.

The BLC2000-721 can be furnished as a two-mode module (Proportional plus Reset), or as a three-mode module (Proportional plus Reset plus Rate).



BLC2000-721 (Two-Mode)



# NUSI 2000 Series

## Blind Controller

### SPECIFICATIONS

Input Signals:	1 V to 5 Vdc: Process variable or $\pm 4$ Vdc deviation. Input resistance $> 1\text{ M}\Omega$
	1 V to 5 Vdc: External Set-point. Input resistance $> 1\text{ M}\Omega$
	1 V to 5 Vdc: External tracking signal. Input resistance $> 1\text{ M}\Omega$
	1 V to 5 Vdc: External feedback signal or ramp error input. Input resistance $> 1\text{ M}\Omega$
	1 V to 5 Vdc: Tracking reference signal. Input resistance $\geq 100\text{ k}\Omega$
	24 Vdc: Load switch command signal, input $\geq 100\text{ k}\Omega$
	24 Vdc: Tracking switch signal, input resistance $\geq 100\text{ k}\Omega$
Output Signals:	Un-switched control output: 1 V to 5 Vdc into $1500\ \Omega$ minimum
	Switched control outputs: 4 mA to 20 mA dc into $0\ \Omega$ to $750\ \Omega$
	1 V to 5 Vdc into $5\text{ k}\Omega$ minimum
	Limits: Low: adjustable from $< 0\%$ to $40\%$ of span
	High: adjustable from $60\%$ to $> 100\%$ of span
Adjustments:	Gain: Slow Mode: 0.5 TO 100
	Fast Mode: 0.05 to 10
	Reset: Slow Mode: 0.04 repeats/minute to 10 repeats/minute
	Fast Mode: 0.4 repeats/minute to 100 repeats/minute
	Rate: 0.01 seconds to 10 seconds
Accuracy	
(at 24 Vdc input, $80\ ^\circ\text{F}$ ):	$\pm 0.5\%$ of span @ gain = 1
Frequency Response:	Jumper-selectable: 1 Hz or 20 Hz
Power Supply Voltage:	0.2 A @ 24 V $\pm 2$ Vdc (22 V to 28 Vdc operative limits)
Operating Influence:	Supply Voltage: 24 V $\pm 2$ Vdc ( $\pm 0.05\%$ )
Ambient Temperature:	$40\ ^\circ\text{F}$ to $120\ ^\circ\text{F}$ ( $5\ ^\circ\text{C}$ to $49\ ^\circ\text{C}$ ) (normal operation)
	$0\ ^\circ\text{F}$ to $140\ ^\circ\text{F}$ ( $-18\ ^\circ\text{C}$ to $60\ ^\circ\text{C}$ ) (operative limits)
Dimensions:	2.8 in x 7.0 in x 11.5 in
Weight:	Rack-mounted: 2 lb
Mounting:	Bailey Type 761 Rack Unit; requires 2 units of space
Legend:	Legend plate holder is integral with the withdrawal handle

For more information please request a  
**Blind Controller Operation & Maintenance Manual.**

#### CONTACT INFORMATION:

Curtiss-Wright Nuclear Division / Scientech I&C Products  
1350 Whitewater Drive, Idaho Falls, ID, 83402 T: (208) 497.3333