CON2000-701
The CON2000-701 Basic Controller replaces the obsolete Bailey 701 basic controller while retaining the functions of the Bailey controller, and is available in a Nuclear Qualified model.

The CON2000-701 is used to control a process variable at a desired value that is set on a local set-point scale or determined by a cascade set-point signal.

The CON2000-701 output controls a final control element such as a valve actuator, and is furnished either as a two-mode (proportional and reset), or three-mode (proportional, reset, and rate) model.

For more information please request a Basic Controller Operation & Maintenance Manual.
## SPECIFICATIONS

### Input Signal:
1 V to 5 Vdc for process variable and cascade input. Input resistance exceeds 1 MΩ

### Output Signal:
- **Voltage:** 1 V to 5 Vdc into > 250 kΩ
- **Current:** 4 mA to 20 mA dc into 0 Ω to 750 Ω

### Accuracy (at 24 Vdc and 80 °F):
- **Offset:** ±0.2%
- **Set Point:** ±0.3%

### Manual Response:
- **Dual Speed**
  - Slow: 50 seconds (nominal) for 100% output span
  - Fast: 5 seconds (nominal) for 100% output span

### Manual Mode
- **Output Stability:** Less than 0.1% per hour

### Adjustments:
- Side panel X1-X10 Switch at GAIN X1:
  - Gain: 0.05 to 5; Reset (R/M): 0.1 to 100; Rate (minimum): 0.01 to 25
- Side panel X1-X10 Switch at GAIN X10:
  - Gain: 0.5 to 50; Reset (R/M): 0.01 to 10; Rate (minimum): 0.01 to 25

### Frequency Response:
- Jumper selectable: 1 Hz or 20 Hz nominal
- Optional: Jumper selectable; 1 Hz or 20 Hz nominal or continuously adjustable 0.1 Hz, 2.5 Hz to 20 Hz nominal

### ALARM (Optional):
- Deviation or process variable actuated
  - **Alarm Accuracy:** 1%
  - **Alarm Point Deadband:** ±0.75% nominal
  - **Alarm Contact Rating:** 2 A @ 115 V ac or 24 Vdc (non-inductive)

### Power Supply Voltage:
0.36 A nominal @ 24 Vdc ±2 Vdc; 1 A fuse

### Operating Influences:
- **Supply Voltage:** (24 Vdc ±2 Vdc); Offset: ±0.3%; Set Point: ±0.2%

### Ambient Temperature:
- **Normal Operation:** 40 °F to 120 °F (5 °C to 49 °C)
- **Operative Limits:** 0 °F to 140 °F (−18 °C to 60 °C)
- **Storage:** 0 °F to 120 °F (−18 °C to 49 °C)

### EMI/RFI Protection:
EPRI Report TR-102323, Rev. 2

### Seismic Qualification:
NUS Instruments Composite Required Response Spectra (RRS)

### Dimensions:
2.8 in x 7.3 in x 19.0 in

### Weight:
5 lb

### Mounting:
Bailey Type 762 panel-mounted shelf

### Legend:
Translucent legend plate at top of module