



Bailey 820 Common Controller Circuits

This five-day course covers the various controller circuits used in the Bailey 820 control system.

I. Summer Plus Bias Plus Integral Module

- A. Description of Operation
- B. Circuit Description

II. Summer Plus Proportional

III. Plus Integral Action Unit

- A. Description of Operation
- B. Circuit Description

IV. Summer Plus Bias Action Module

- A. Summing Circuit
- B. Operational Amplifier
- C. Bias Circuit
- D. Inverter Circuit
- E. Tie-Back Circuit

V. Summer Extension Module

- A. Circuit Description
- B. External Wiring

VI. Derivative Action Module

- A. Description of Operation
- B. Circuit Description

VII. Signal Lag Action Module

- A. Description of Operation
- B. Circuit Description

VIII. Rate Limited Signal Follower Module

- A. Description of Operation
- B. Circuit Description

IX. Multiplier Module

- A. Description of Operation
- B. Circuit Description

X. Function Generator

- A. Description of Operation
- B. Circuit Description

XI. Signal Generator

- A. Description of Operation
- B. Circuit Description

XII. Auctioneer Module

- A. Description of Operation
- B. Circuit Description

XIII. Signal Limiter

- A. Description of Operation
- B. Circuit Description

XIV. Signal Monitor

- A. Description of Operation
- B. Circuit Description

XV. Pulsar Module

- A. Description of Operation
- B. Circuit Description

XVI. Square Root Extractor

- A. Description of Operation
- B. Circuit Description

XVII. Tri-Stable Relay

- A. Description of Operation
- B. Circuit Description

XVIII. Transfer Relay

- A. Description of Operation
- B. Circuit Description

XIX. Analog Memory

- A. Description of Operation
- B. Circuit Description

XX. Buffer Module

- A. Description of Operation
- B. Circuit Description

XXI. Auxiliary Relay

XXII. Power Supply Monitor Module

- A. Description of Operation
- B. System Application
- C. Circuit Description

XXIII. Voltage-to-Current Converter

XXIV. Millivolt-to-Volt Converter

- A. Description of Operation
- B. Circuit Description

XXV. Operator Interface Stations

- A. Transfer Station
- B. Set Point Station TG11
- C. Signal Generator Stations TG30, TG40 (Bias Manual and Manual Control)
- D. Measured Variable Stations TY10, TY11
- E. Manual Jogging Station TJ20