

User Manual RATIO CONTROLLER

Ratio Controller Manual

Mainboard Pinout Description

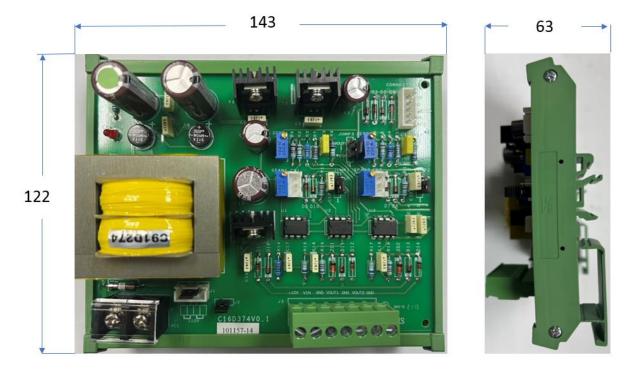
- Terminal Block R, T (AC Power Input Side)
 Caution: Incorrect wiring may cause product damage.
 Input Voltage:
 - AC 110V ±10%, 50/60Hz: Short pins 1 and 2, and pins 3 and 4 of J1.
 - AC 220V ±10%, 50/60Hz: Short pins 2 and 3 of J1.
 Factory Setting: 220V (J2 contains a spare jumper for 110V).
 Important: Ensure the correct jumper configuration before applying power.
- Terminal Block J3 (VR Input Connections)
 - **+10V Terminal:** Provides **+10VDC** power supply.
 - VIN Terminal: VR signal input.
 - **GND Terminal:** VR 0V reference.
- First D/A Output (J3 D/A Terminals VOUT1, GND)
 - **VOUT1 Terminal:** Outputs +0V to +10VDC.
 - **GND Terminal:** 0V reference.
- Second D/A Output (J3 D/A Terminals VOUT2, GND)
 - **VOUT2 Terminal:** Outputs +0V to +10VDC.
 - **GND Terminal:** 0V reference.

Note: These two D/A outputs are independent, with separate **Zero** and **SPAN** potentiometers for fine-tuning each D/A channel. The potentiometers are blue precision resistors located at the center of the PCB.

Caution: Do not common-ground the GND terminals unless necessary.

- JUMP3 Terminal: Command Signal Selection for Second D/A Output
 - Short pins 1 and 2 (VO1): The second D/A will parallel the external (VIN) signal.

- Short pins 2 and 3 (VIN1): The second D/A will be cascaded with the first D/A signal.
- JUMP1 Terminal: SPAN Potentiometer Selection for First D/A Output
 - Short pins 1 and 2 (IN): Select the **SPAN1** adjustment using the blue VR on the first D/A.
 - Short pins 2 and 3 (OUT): Select external VR adjustment via the CN1 connector for the first D/A.
- JUMP2 Terminal: SPAN Potentiometer Selection for Second D/A
 Output
 - Short pins 1 and 2 (IN): Select the **SPAN2** adjustment using the blue VR on the second D/A.
 - Short pins 2 and 3 (OUT): Select external VR adjustment via the CN2 connector for the second D/A.



Dimensional Diagram

The enclosure specification: **Dinkle KMLR-0140 Unit:** mm Get ISO 9001 international quality certification



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