

Overview

The TC-001 Series is a compact manual tension controller that provides excitation current for magnetic powder clutches/brakes, hysteresis clutches/brakes, and more.

It is very suitable for the situation with little current for each channel where a multi-channel tension control is required on a device such as a slitting machine, printing machine, or cable processing.

The manual tension controller is small in size and easy to install.

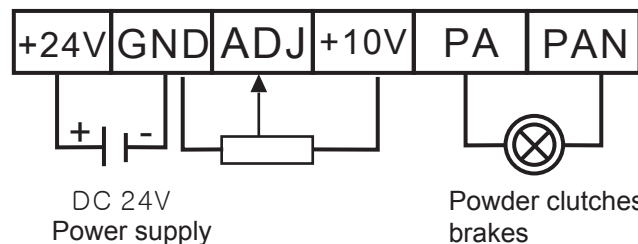
Product specifications

- TC-001: Output DC 24V/0-4.0A .

Features

- Power supply: DC 26-28V/5A
- Small size and thin
- Max. output current can reach 4.00A, adjustable step-in 0.01A
- No fan for heat dissipation
- Can record the output current value without operation for 5 seconds
- With forbid output/ allow output function
- With short circuit protection

Electrical connections

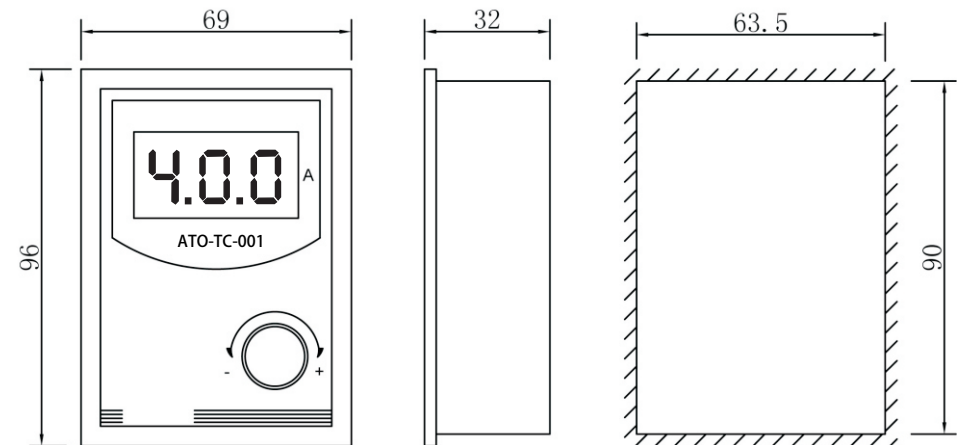


Description:

1) The maximum output current of DC 24V power should reach 5-13A, when the DC 24V power supply power to multiple TC-001 controllers.

2) DC 24V power supply output voltage can be adjusted to 26-28V depends on loading.

Installation dimensions



Operation

1. The LED digital tube shows current when power is on. Can change the output current value via adjusting the panel knob by hand. (Unit A)
2. Press the panel button shortly when the digital tube shows OFF, the controller output current will go to zero (disable output). The controller will resume output after pressing the panel button shortly and "OFF" is gone.
3. The current value will be recorded when the output current is adjusted to a value and without operating for 5 seconds. After power-off, the controller will still output this value when power on again.
4. The LED will show present current with flashing when the output is short-circuited. The LED will be "OFF" after 10-15 seconds of short-circuit, and the output will be closed. When the short-circuit fault is eliminated, the controller will restore output after pressing the panel knob shortly.
5. External potentiometer control. Press the panel knob for a while then the digital tube show OFF and show decimal point on the bottom right corner which is external potentiometer control mode; Press the panel knob till the decimal point on the bottom right corner is gone which is panel knob control mode.