ZABER™ *Zaber Technologies Inc*

GMP
General Microtechnology & Photonics
Instruments for Industry, Research, Telecom & Medicine

ZABT- CD Series external motor controllers

- ***bipolar stepper motor controller (chopper drive)***
- ***use with our NA, LM or NM series devices or your own equipment***
- ***up to 2.5A per phase***
- ***daisy chainable with any T-series products***
- ***up to 128 microsteps per step position resolution***
- ***built in control knob for manual positioning***

The T-CD Chopper Drive can be used to control any 2 phase stepper motor up to 2.5A per phase. It is compatible with our NA series actuators, NM series motors, LM series motorized stages, and LMG series goniometers which may be purchased separately. T-CD Chopper Drive units can be daisy-chained with any T-Series products to a single serial or USB port.

Zaber's T-CD stepper controllers are stand alone units requiring only a standard 12-36 V unregulated AC/DC transformer for power. Multiple units can be daisy-chained to a single RS-232 serial port or USB port on any computer. They can also be daisy-chained with any other T-Series products. Convenient 6-pin mini din cables on the unit allow for direct interconnection between units in close proximity. For longer distances, standard cable extension can be used.

To control actuator position, simply transmit on the serial port the unit number of the device you want to move, a simple move command and the position desired. After the move, the controller will report its position through the RS-232 link. For a detailed list of available commands see the user's manual.

A knob at the end of the unit permits manual control of the connected motor. Turn the knob a little and the unit will move in microsteps. Turn it fully to get the device's full speed. During a manual move the controller constantly transmits its position so the controlling computer can track it.

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Specification	Value
Dimensions	180 x 45 x 28 mm
Maximum current per phase	2.5 A
Power Supply	2.1 mm centre positive, 12 to 36 V DC
Manual Control	Yes, Knob with centre detent
Visual Feedback	Power and Com LEDs
Position Resolution	All position data is in microsteps with 128 microsteps per step
Microstep period resolution (for velocity control)	0.1µs
Max microstep period (min velocity)	2 µs
Min microstep period (max velocity)	0.8 s
Motor cable connector	8 pin mini-din, female

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