

Controls

Adjustable Torque



TCS-200-1 Manual/Analog

The TCS-200-1/-1H single channel controls are selectable voltage or current controlled power supplies designed to power up to a 16-magnet Electro Disc tension brake system, Electromagnetic Particle Brakes, TB Series brakes, or Advanced Technology tension brakes. These controls operate from a switch-selectable power source of 115 or 230 VAC. They can be operated manually from the front panel or remotely via an analog voltage input, a current input, a remote pot, or a roll follower. External inputs are also provided for remote brake Off, Run, and Stop functions, as well as front panel control of these functions.

Features

- Input: 115/230 VAC, 50/60 Hz
- Output: -1, 0–24 VDC adjustable, 4.25 Amps continuous
- -1H, 0–24 VDC adjustable, 5.8 Amps continuous
- Front panel torque adjust
- Front panel brake mode stop switch
- **Modes:** Stop – Brake Full On
Run – Normal Operation
Off – Brake Off
- Remote brake mode switch (same functions as mentioned above)
- Remote torque adjust
- Roll follower input
- 0–10 VDC analog voltage input
- 4–20mA analog current input

System Control



MCS2000 Digital Web Tensioning

The MCS2000-CTDA/CTLCL are digital web tension controllers. They are

especially designed for user applications. The units are equipped with a power supply, control (PID) logic, front face keypad and display for programming. The MCS2000-ECA is the OEM version controller without the power supply and display. It has the same function and features as the user version. All the controller units can be used in open-loop, closed-loop and open + superimposed closed-loop for very precise tension control applications. The -CTDA and -ECA work with dancer systems and the -CTLCL is for load cell systems. The -CTLCL will accept one or two load cells that output anywhere between 5mV and 10VDC. It will sum and amplify any load cell available on the market.

The MCS2000-PSDRV works with the controller to provide two 0–24 VDC outputs for electric tension brakes. It is powered with 115/230 VAC at 1.4 Amps continuous or 3 Amps peak per channel.

Features

- Input: 115/230 VAC
- Output: Two 0–10V outputs
- Scaleable tension readout
- Password protected
- Eight different output options
- Fully digital
- Multi-purpose
- RS-232 communications
- Memory card for storing up to two full programs
- Windows programming software
- Integral terminal reset
- Two output channels
- Automatic sensor scaling
- External set point change
- Programmable output configuration
- Output sensor information
- Automatic or imposed PID correction

Dancer/Remote Analog Control



MCS-203/MCS-204/MCS-166

The MCS-203 is a basic dancer control that automatically controls web tension through the use of a dancer roll and sensor. It is single channel, but can operate two 24 VDC tension brakes in parallel when using two MCS-166 power supplies.

The MCS-204 is a basic remote analog control that can also be operated manually via a front panel tension adjustment potentiometer. It is also single channel with the possibility of

operating two 24 VDC tension brakes in parallel when using two MCS-166 power supplies.

Features

- Input: 115/230 VAC, 50/60 Hz
- Output: 0–24 VDC at 3 Amps max.

MCS-203 (only)

- Full P-I-D adjustment
- System gain display

MCS-204 (only)

- Front panel torque adjustment
- Remote potentiometer adjustment
- Roll follower input
- Remote voltage or current analog signal following