

**MAGPOWR®**

 A Maxcess  
International  
Company
**CYGNUS™****Closed Loop Tension Control**
**Introducing CYGNUS.  
Revolutionary tension  
control technology.**

**N**ever has so much power and so many features been designed into such a small package. At less than 4" deep, the CYGNUS leaves plenty of space to mount other components. Now you can dramatically reduce set up time and improve consistency with powerful features like Auto Tuning and Out of Round Roll Compensation. Web tension is easily maintained or adjusted using multifunction smart keys. Operators simply navigate the control using full text, on-screen prompts on the large backlit display. Magpowr is conquering the web world as the innovation leader.

**CYGNUS-E****CYGNUS-DIN**
 KEY  
FEATURES


## SPECS

**General Specifications**
**Product Name:**  
CYGNUS™ Web Tension Control

**Supply Voltage:**  
115/230 vac ±10%, 50/60 Hz,  
Switch selectable

**Tension Input:**  
0 to 21 mvdc  
(1 or 2 350 ohm full bridges)  
0 to 500 mvdc  
(one 120 ohm bridge)  
0 to 10 vdc, 1 mADC max

**Diameter Input:**  
0 to +10 vdc analog or  
calculated using velocity/rpm

**RPM/Web Speed:**  
0 to +10 analog, or 1 to 50,000  
pulses per second,  
5 vdc or 24 vdc logic

**E-Stop, Run/Stop, Tension Off,  
Format, Splice Outputs:**  
switch closure, 5 or 24 vdc  
logic, active high or low

**Torque & Inverse Diameter  
Output:**  
0 to +10 vdc, 1 mADC max  
4 to 20 mADC, 500 ohms max  
-10 to +10 vdc, 1 mADC max

**Temperature Range:**  
**E - Operating:** 0 to 40° C  
**DIN - Operating:** 0 to 50° C  
**Storage:** -30 to 80° C

**Tension Reference:**  
0 to 5 vdc, 1 mADC max  
**Load Cell Excitation:**  
5 or 10 vdc  
**Low Tension (Web Break),  
Tension Status:**  
dc Solid State Relay, 100  
mADC with a 1.6 vdc drop,  
30 vdc max  
5 mADC with a 0.6 vdc drop,  
30 vdc max
**Key Features:**

- Large backlit display for viewing in any light condition.
- Tactile feedback SmartKeys for confirmed data entry.
- Web Break Detection and Out of Round Roll Compensation features to reduce waste and the need for expensive dancer systems.
- Automatic tuning for quick setup.
- "Weightless" calibration and on-screen diagnostics simplify load cell setup and operation.
- Multiple memory setup for quick material/machine changeover.
- IP65 protection against dirt and liquids.
- Selectable language and metric or inch units for global installations.
- Choice of mounting options for flexibility.

# Program Options Screen



Home Screen with Digital Tension Display

Large Backlit Display

Tactile Feedback Keys

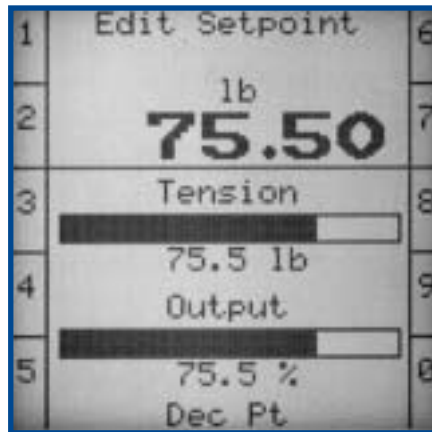
Backspace

Enter

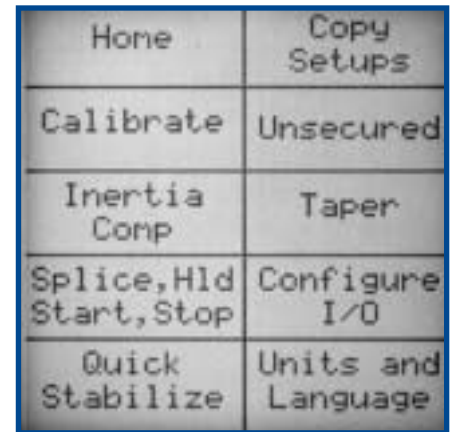
*Home Digital  
(Environmentally sealed, electrostatically protected  
touch keypad for setting tension and inputting data)*



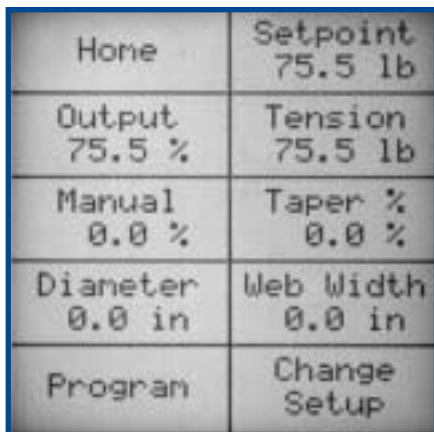
Home Analog Tension Display



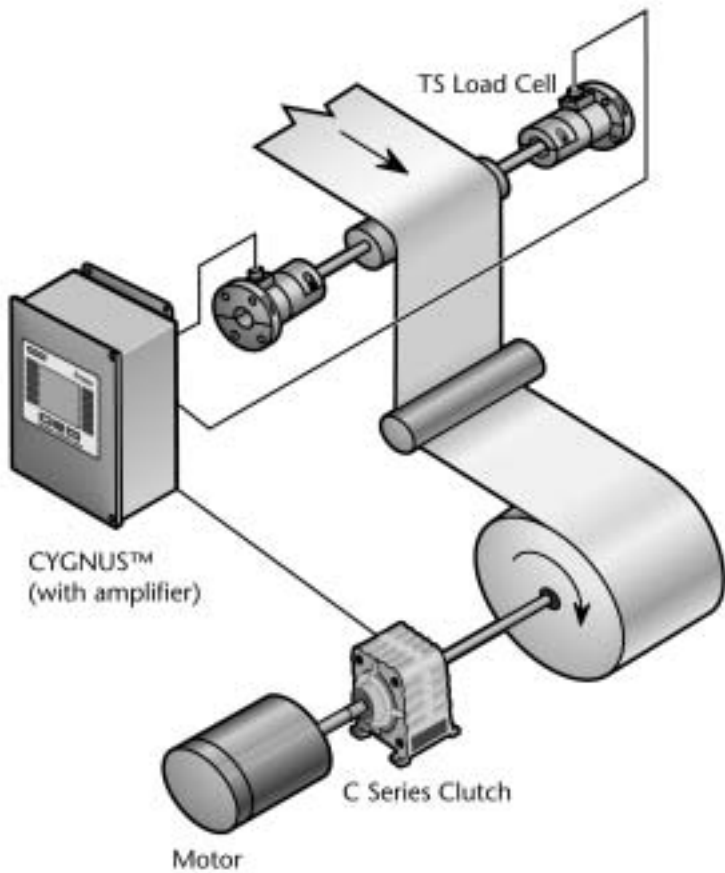
Edit Tension Setpoint Screen



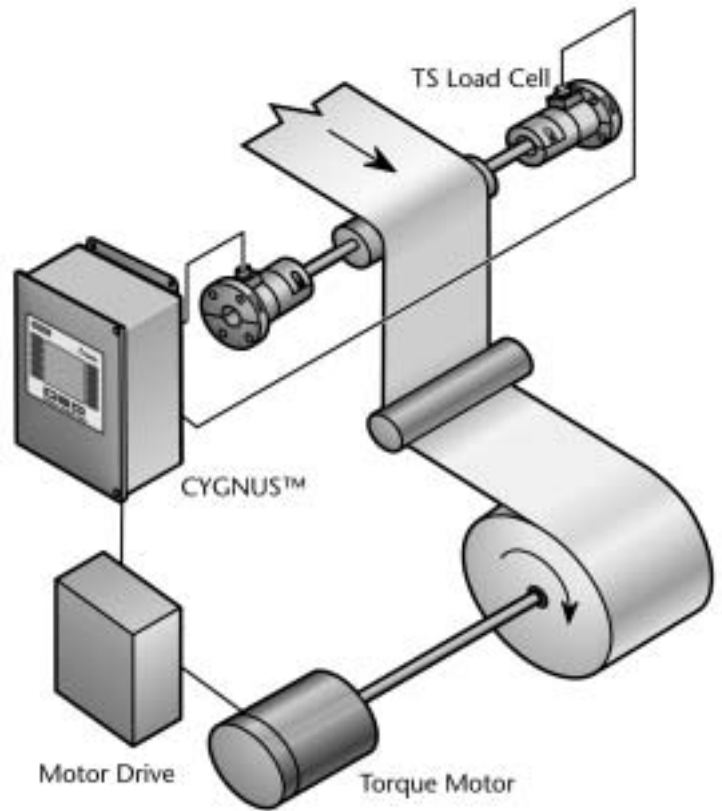
Program Options Screen



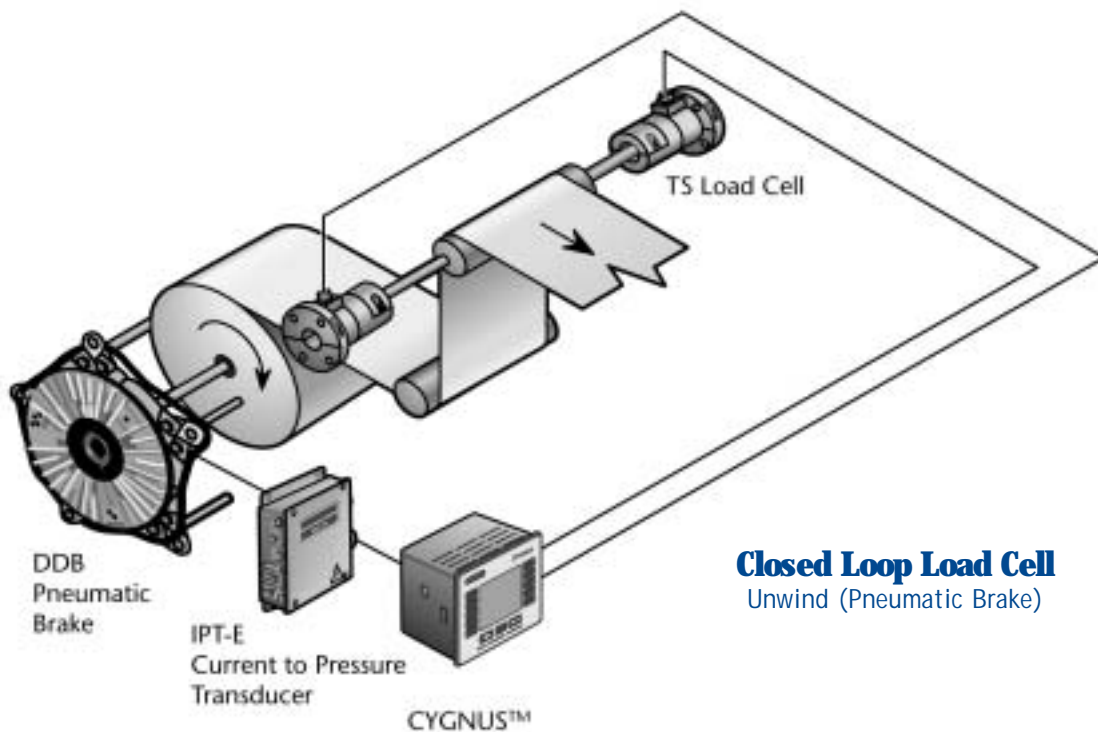
More . . . Options screen



**Closed Loop Load Cell**  
Rewind (Magnetic Particle Clutch)

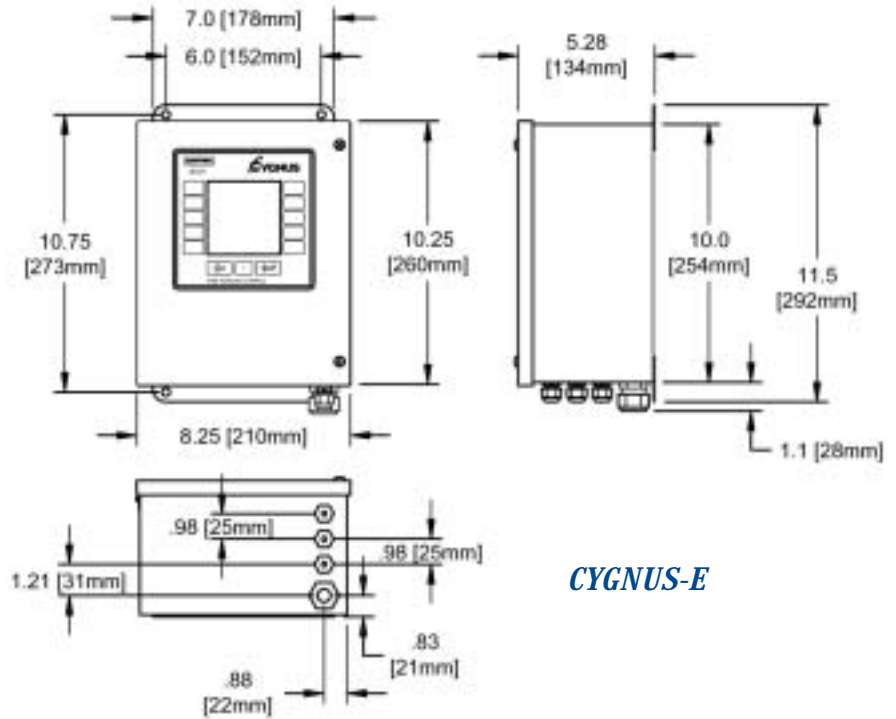


**Closed Loop Load Cell**  
Rewind (Motor Drive in Torque Mode)

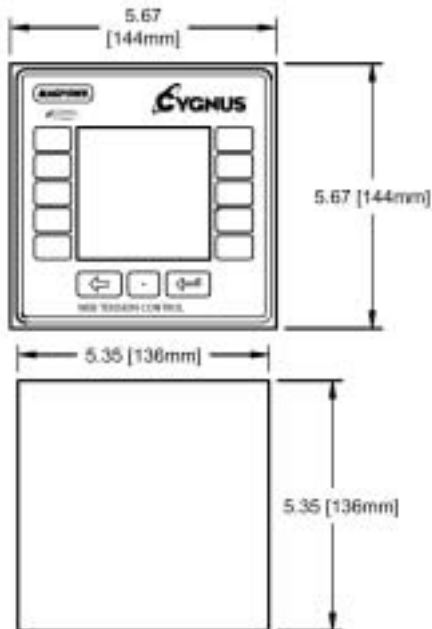


**Closed Loop Load Cell**  
Unwind (Pneumatic Brake)

# Dimensions



**CYGNUS-E**



Recommended Panel Cutout

**CYGNUS-DIN**

## Complementary Products:

### MAGPOWR

- Tension Control Products
  - Load Cells
- Torque Control Products
  - Magnetic Particle Brakes and Clutches

### FIFE

- Guiding Products & Systems

### TIDLAND

- Slitting Products & Systems
- Winding Products



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