Tension Control

for Paper, Plastics, and Textiles

Controls tension

Measures diameter

Controls all types of brakes and clutches

Replaces ratio calculators

Works with load cells if required

Taper Tension option

Versatile economical and reliable

... For paper, plastic, metal and textiles

Displays actual diameter to +-.01"

Features end of roll or minimum diameter presets

Easy to Install and interface with existing controls

Versatile, economical and reliable.

SONA-TROL is an efficient and low cost system for controlling tension and determining unwind and rewind diameters.

SONA-TROL Diameter measurement systems can be used to compliment load cell based tension control systems.

SONA-TROL Replaces diameter and ratio calculators and provides superior accuracy and provides diameter information at zero speed.

SONA-TROL combines sonar principles and technology with state of the art digital and analog electronics.

SONA-TROL is unaffected by material inconsistencies, dirt, lint and variations in line voltage.

SONA—TROL replaces electromechanical follower arms and diameter calculators. Tension is controlled precisely from the point where the material comes off a roll to ensure constant tension despite out of round rolls.

AO-2 Tension Control System



TC-6 TENSION Control

STANDARD Capabilities:

Displays roll diameter to +-0.1"

(+-0.01" optional)

Displays actual tension in pounds

End of roll or minimum diameter presets

Adjustable distance zero offset

Adjustable gain

Adjustable receiver sensitivity

6" to 20' operating range

10' sensor head cable

Electrically isolated sensor head

Oil-tight JIC enclosure

OPTIONAL FEATURES:

Dual sensors for wide sensing area

Limit switch outputs (up to 20 per sensor)

Adjustable measurement repetition rate

Sensor array sequencer (up to 28 sensors)

Digital or analog readout of distance, height, or diameter of

Specifications:

Electrical Supply voltage 120 or 230 vac 25/12 mA

Pneumatic Input pressure up to 100 psi

Flow 23cv

Filtration Included

Lubrication not needed

Pneumatic output 0-100psig Max

Physical

Air input 1/4 inch NPT

Air output 1/4 inch NPT

objects

Readouts can be scaled to measure volume of liquids or solids in tanks. Wide range of voltage outputs 0-90 volt DC clutch or brake output 0 to 10 or 4 to 20 ma current loop output Sensor head cable to 150'

High resolution 3" to 24" and 5" to 48" sensor head

OTHER OPTIONS INCLUDE:

RMS and PID output

SONA-TROL Applications are

Unlimited.....

Control Tension

Distance Measurement

Diameter Measurement

Liquid Level Measurement

SONA-TROL replaces air switches, photo eyes, dancer arms, float switches, limit switches, and capacitance sensors. It is extremely reliable, economical, and easy to operate.

Ultrasonically senses strips down to 0.010" Wide.

AO-2

AO-2 Tension Control System

Features:

Maximum roll diameters up to 24 feet

Automatic Tension Control

Non Contact Roll Diameter measurement

End of roll detector

0-90 psi air output

Linear or optional 0-100% taper Adjustment of tension Will not harm sensitive films, foils, or other

materials.

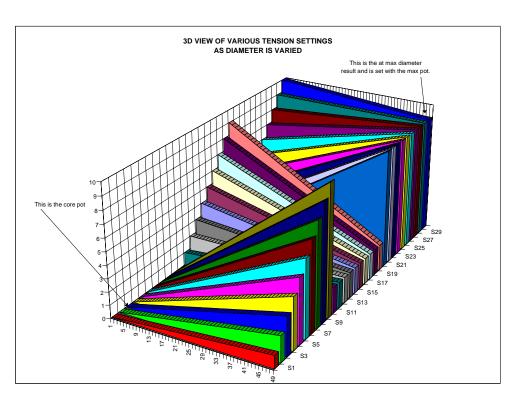
Replaces follower arms and diameter calculators. No load cells

Operates on 110v/50/60 hz power.

Also available with 0-90vdc, 0-10 volts, or 4-20 ma outputs .

Materials: Paper, film, foil, plastics metal, wire, chain, screen.

Sonatrol AO-2 can be used on any winding or unwinding application.



SONA-TROL DIAMETER TO TORQUE APPLICATION

THE DUTPUT OF THE SONA-TROL SENSOR CAN BE SENT INTO AN I/P CONVERTER OR ELECTRIC BRAKE OR CLUTCH CONTROLER TO SET THE TORQUE PROPORITIONAL TO THE DIAMETER OF THE ROLL OF MATERIAL

EXCELENT RESULTS HAVE BEEN OBTAINED WITH AIR, OIL, DC MOTOR, MAGNETIC PARTICAL, EDDY CURRENT AND FRICTION BRAKES AND CLUTCHES

