T-ONE
TENSION CONTROLLER

✅ Control of closed-loop and combined systems
✅ Regulation both in torque and speed
✅ Tension control with load cells or dancer roller
✅ Compact design
✅ Ease of use and calibration

T-one is a tension controller specifically designed for the web tension control in closed-loop and combined systems; extreme ease of use and compactness are the main features of the tension controller. The core of T-one is the P.I.D. algorithm, which has been improved in speed and accuracy.

The interface with 6 buttons and 4 digit is easy to use and allows to smoothly control and set up the desired parameters to obtain the best results.

T-one can be used both with load cells and dancing roller and it can control the web tension in unwinding, rewinding and processing. The P.I.D. algorithm calculates the measured error and modifies the brake or clutch control output maintaining the web tension stabilized at the set point value.
### TECHNICAL DATA

- **Power supply**: 24 Vdc
- **Power**: 8 W max
- **Analog input**: 0÷20 mV / 4÷20 mA | 1 max nr.2 load cells
- **Analog inputs**: 0÷10 V | 1 dancer roller or remote setpoint or line speed
- **Digital inputs**: 24 V | 2 remote controls
- **Analog outputs**: 0÷10 V / 4÷20 mA | 1 PID torque control
- **Analog output**: 0÷10 V | 1 tension proportional or dancing roller piston control
- **Digital relay output**: 24 Vdc / 24 Vac | 2 for alarms
- **Weight**: 400 g
- **Working temperature**: 0÷50°C
- **IP protection class**: IP 20 (case) IP 52 (frontal panel)
- **Dimensions**: 109 x 109 x 67 mm

*Data are subject to technical change without notice*