CONTROLS

MCS2000-CTDA / CTLC

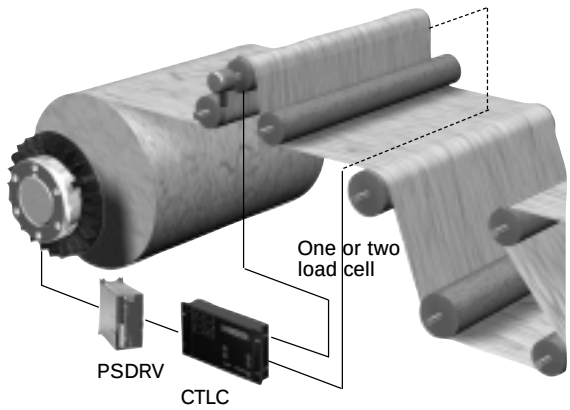
MCS2000-CTDA and CTLC *are packaged versions. Power supply, programming keyboard and display are built in. In the* ***CTLC*** *version (load cell), two load cell amplifiers are installed as standard.*
For both ***MCS2000-CTDA and CTLC*** *two software versions are available. See specifications below.*

Common specifications

Input power supply	110-240 VAC selectable
Analogue inputs	
Two analogue inputs	0-10 VDC
Analogue outputs	
Two controlled channels	± 10 VDC, 0-20 mA
Open loop signal	0-10 VDC
Digital inputs	
Set point change +	active low
Set point change –	active low
Set point change ±	front face switch
Gain multiplier	active low
Output limitation	active low
ABC binary combination	active low
ABC inputs synchronisation	active low
Stop integral form	active low
Digital outputs	
Sensor level indication	Two binary outputs
Other outputs	
Power supply sensor	± 15 VDC / 100 mA ± 5 VDC / 100 mA
Power supply	24 VDC
Voltage reference	+ 10 VDC / 10 mA
Options /accessories	
Memory card	see page 39
Window soft	see page 39
Rotary and linear sensor	see page 34

Common features of all versions

- ❒ Three mounting possibilities.
- ❒ Software password protected.
- ❒ Fully digital, scrolling menu program.
- ❒ Multipurpose application.
- ❒ RS232 communication.
- ❒ Two ouput channels.
- ❒ Automatic sensor scaling.
- ❒ Programmable output configuration.
- ❒ Output sensor information.
- ❒ External set point change.
- ❒ Automatic or imposed PID correction.
- ❒ All features requested for tension control.
- ❒ Plugable memory card.



Various models definitions – specifications – typical applications

Model	Characteristics	Applications
MCS2000-CTDA-10	RS232 One sensor input	Dancer feedback
MCS2000-CTDA-11	One sensor input Taper position function Limited RS232	Dancer feedback
MCS2000-CTLC-10	RS232 Two scalable sensor input	Load cell feedback
MCS2000-CTLC-11	Two scalable sensor input Taper tension function Limited RS232	Load cell feedback

Taper function

The most usual application requiring taper function is the rewind stand where the initial tension on the core has to be automatically reduced as the diameter increases. Rewind diameter information / feedback is essential. The typical application is slitter where no intermediate driving roll is present. The unwind tension, in this case, is the same as rewind and has to be tapered. The tension is identical in zone X and Y.

The tension reference on the controller MCS2000-CTLC-11 is continuously corrected according to the rewind diameter information coming from the driving system or from an ultrasonic sensor measuring the rewind diameter.

The taper function allows a perfect rewind roll shape (mainly avoiding telescopic effect).