

LE-40MTA / LE-40MTB type full automatic tension controller

LE-40MTA / LE-40MTB type full automatic tension controller is used with the LX-TD / LX-TD-928 form fine excursion-type tension detector, and unwinding of long material, intermediate shaft, the tension of the material in the winding. The control device for automatically controlling the.

Powder clutch / brake, hysteresis clutch / brake, the servo motor (torque mode), may be used as an actuator such as an air clutch / brake, power amplifiers and auxiliary power for DC24V system clutch / brake has also been built.



- Employs a microcomputer control system switch regulator power, has achieved a significant compact and lightweight.
 - AC100V ~ 240V system wide range power supply voltage compatible.
 - The setting value it can be stored and saved in memory cassette. Also, I can easily bulk copy and change settings. ※
 - A large LCD (2-line × 40 digits) I have adopted two of the display system of the LED (7 segments). Tension / output of simultaneous monitor, bar graph display of the tension value, display of control state by the character, has become even easier to see.
 - Adopt auto-zero span adjustment method of tension detector, was eliminating the troublesome adjustment work. It can also be an automatic adjustment of the control gain.
- ※ memory cassette sold separately FX-EEPROM-4 or, please arrange the FX-EEPROM-8.

LE-40MTA: standard type

- Because we adopted a volume, conventional and can be operated in the same sense, there is no discomfort.

LE-40MTB: high-function type

- Employs a rotary pulsar, it was to facilitate the setting of numerical values.

- Connection with the CC-Link, you can wire link with the FX sequencer.
 - CC-Link
FX2N-32CCCL (interface block), [LE-60EC \(additional block for the extension cable\)](#) , FX2N-CNV-BC (connector conversion adapter) use.
 - FX sequencer
FX twisted pair cable is used for sequencer parallel link.
- You can choose the setting in the menu screen.
Registration and of the seven types of material name, eight kinds of settings for each material can be registered by the menu, it will be able to read set this setting at the touch of a button.

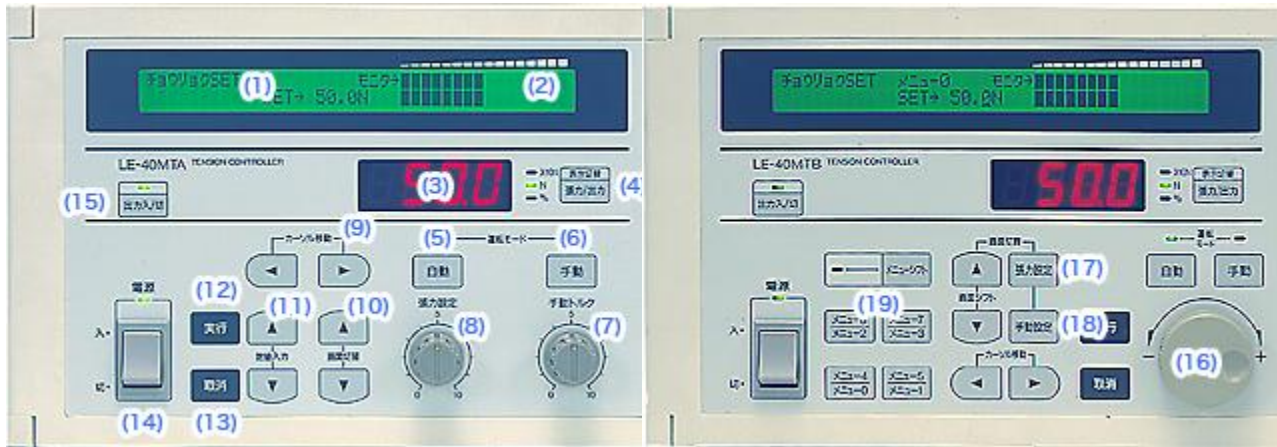
There are also English display type

- There are also English type of panel surface and LCD display.
 - Standard type LE-40MTA-E
 - High-performance type LE-40MTB-E

The configuration of the panel surface

● LE-40MTA

● LE-40MTB



Parameter List

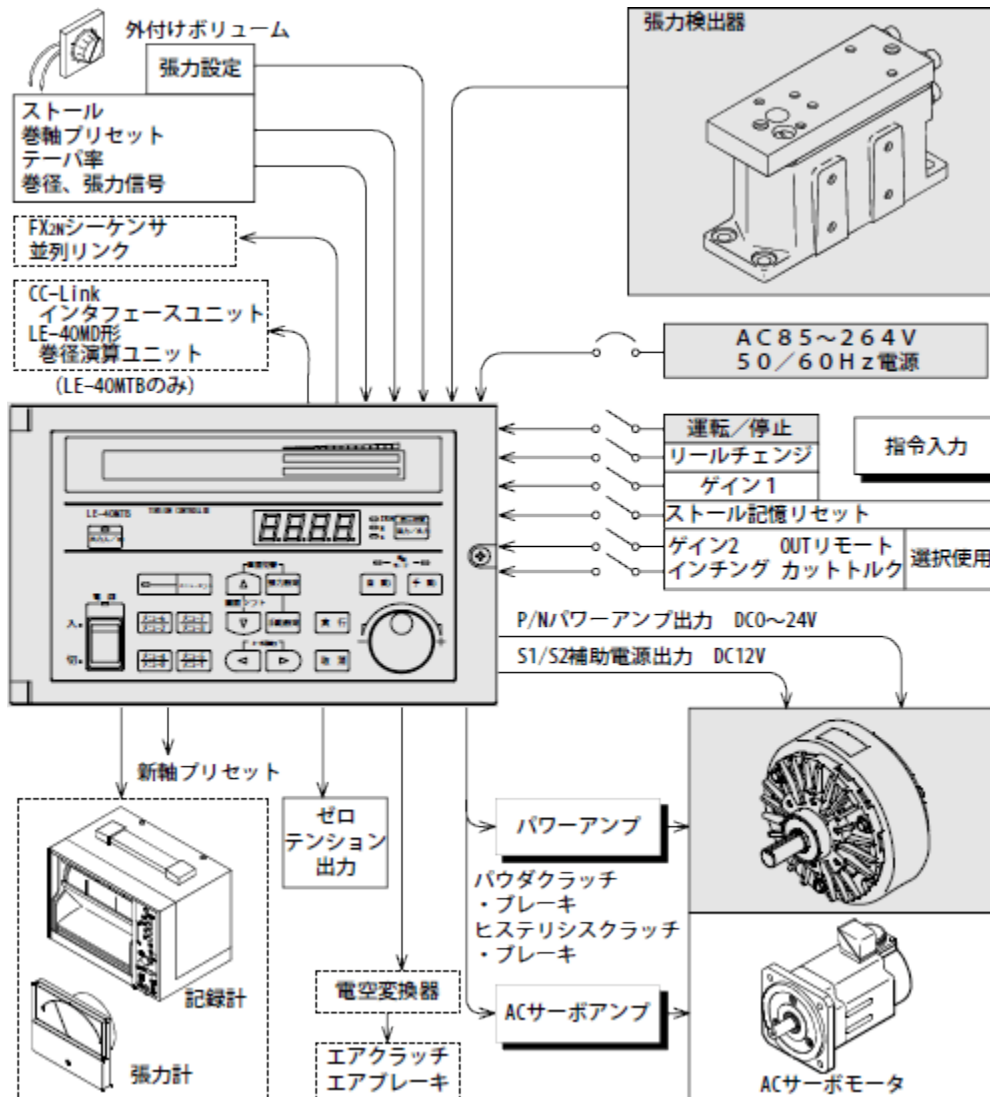
Setting items		Setting	Unit	Setting range		Initial value
				Minimum	Maximum	
Tension	Tension setting	Tension setting value (N)	N	0.1, 1, 10 - full-scale tension		200
		Tension set value (x10N)	N	0.01, 0.1, 1 - full-scale tension		20.0

Manual setting	Tension full scale	Full-scale value	-	1	1999	500
		Point (N)	-	Choose 0.1,1.0,10		x1
		Point (x10N)	-	Choose 0.01, 0.1, 1		x0.1
	Tension detector	Zero adjustment	-	0	0	0
		Span adjustment target value	N x10N	1 digit ~ full scale tension (requires one-third of the full-scale value)		500 50.0
		Display time constant	s			1/2
	Filter	TMO output time constant	s	Choose 1 / 4,1 / 2,1,2,4		1/2
		Zero tension detection value	Zero tension setting (N)	N	0	1999
	Zero tension setting (x10N)		x10N	0.0	199.9	0.0
	Manual setting	Manual setting	%	0	Hundred	Twenty
Te pa	Straight taper	Taper rate (internal winding diameter)	%	0	80	0
		Taper rate (external winding diameter)	%	0	Hundred	0
	Broken line taper	Corner 1-4	mm \varnothing	0	2000	0
		Taper 1-4	%	0	Hundred	0
Start	Stall	Stall setting	%	0	Hundred	Twenty
	Timer	Start timer	s	0.0	10.0	4.0
Output Gain	Gain 1	%	Five	400	Hundred	
	Gain 2	%	Five	400	Hundred	

New axis / old axis switching	New axis preset value		%	0	Hundred	Fifty	
	Preset timer		s	0.0	30.0	4.0	
	Cut torque		%	0	Hundred	Ten	
	Stop timer		s	0.0	100.0	6.0	
Stop control	Stop gain		%	Five	400	Hundred	
	Stop bias		%	0	Fifty	0	
Mechanical loss correction	A axis setting	Powder mode	%	0	Hundred	0	
		AC servo mode	%	-50	Hundred	0	
	B axis setting	Powder mode	%	0	Hundred	0	
		AC servo mode	%	-50	Hundred	0	
	Minimum diameter setting		mm \varnothing	0	2000	Hundred	
	Maximum diameter setting		mm \varnothing	The minimum setting diameter	2000	Thousand	
Reel diameter	Minimum diameter setting		mm \varnothing	0	2000	Hundred	
	Maximum diameter setting		mm \varnothing	The minimum setting diameter	2000	Thousand	
Control gain	Manual setting	Proportional gain		%	0	Hundred	Fifty
		Integration time		%	1	Hundred	Fifty
		Dead zone gain		%	0	100-proportional gain	0
		Dead zone width		%	0	Hundred	Fifty
	Auto gain	Adding torque		%	0	Hundred	Twenty

setting

The external device that is connected to the input and output terminals of the tension controller include the following. Some of the tension detector and the actuator and the command input switch is essential, but others will be connected as needed.



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External connection diagram

