

Unlock Codes

The **ULoc** screen is seen before entry is allowed to Configuration, Setup and Automatic Tuning modes.



An unlock code must be correctly selected using the  or  keys to enter the required mode. An incorrect entry results in a return to Select Mode. The value of the lock codes only can be changed from within the modes that they apply to.

Table 7. Lock Code – Entry and Default Values

Description	Upper/Main Display	Lower Display (or 1 st Legend)*	1/8 DIN Indicator Units Display
Default values are: Automatic Tune Mode = 0 Set-up mode = 10 Configuration Mode = 20 .	0	ULoc	[



***Note:**

On Indicators (single line display), this legend is shown for approx 1 second before the Main display value.




Automatic Tune Mode

Automatic Tune Mode is selected when it is desired to use the Pre-tune and Self-tune facilities on a controller to assist the user in setting up Proportional band, Integral and Derivative parameter values. Refer to the following Automatic Tune Mode table.

Pre-tune can be used to set Controller PID parameters approximately. Self-tune may then be used to optimise the tuning. Pre-tune can be set to run automatically after every power-up using the Auto Pre-Tune **APT** parameter in Setup Mode.

The **AT** indicator will flash  while pre-tune is operating, and is continuously on  whilst Self-tune is operating. If both Pre-tune and Self-tune are engaged the **AT** indicator will flash until Pre-tune is finished, and is then continuously on.

Navigating in Automatic Tune Mode

Press  to select the next parameter in the table and  or  to set the value required.

Hold down  and press  to return to Select Mode.

Note:

If there is no key activity for 2 minutes the controller automatically returns to operator mode


Table 8. Automatic Tune Mode Parameters

Parameter	Upper Display Adjustment Range	Lower Display	Default Value	When Visible
Pre-tune	On or OFF . Indication remains OFF if Pre-Tune cannot be used at this time. This applies if: a). The setpoint is ramping b). The process variable is less than 5% of span from the setpoint c). The primary or secondary output proportional bands = 0	Ptun	OFF	Controller models only
Self-tune	On or OFF . Indication remains OFF if Self-Tune cannot be used at this time. This applies if either proportional band = 0.	Stun	OFF	Controller models only
Automatic tune mode lock code	0 to 9999	tLoc	0	Controller models only

Product Information Mode

This is a read only mode describing the instrument and the options fitted to it.

Navigating in the Product Information Mode

Press  to view each parameter in turn.

Hold Down  and press  to return to Select Mode.

Note:

If there is no key activity for 2 minutes the controller automatically returns to operator mode

Table 9. Product Information Mode Parameters

Parameter	Possible Values	Upper/Main Display	Lower Display (or 1 st Legend)*	1/8 DIN Indicator Units Display
Input type	Universal input	Un I	In_ I	t
Option 1 module type	No option fitted	nonE	OPn I	I
	Relay	rLY		
	SSR drive	SSr		
	Triac	tr I		
	Linear voltage / current output	L in		