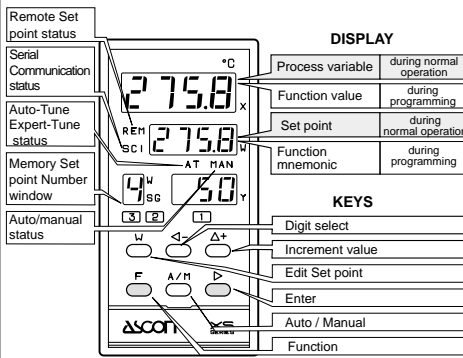
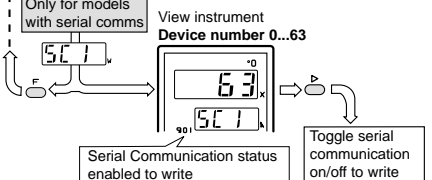
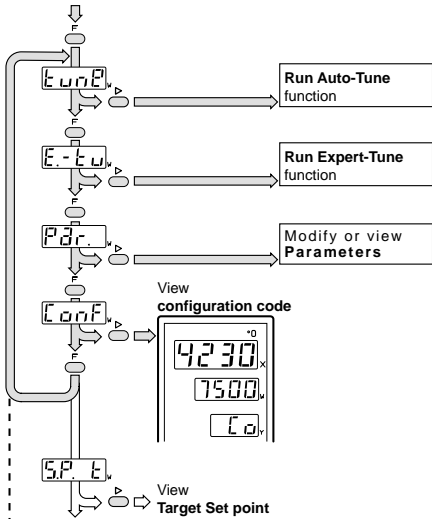


8 • OPERATING INSTRUCTIONS • XS SERIES CONTROLLERS

FUNCTIONS MENU



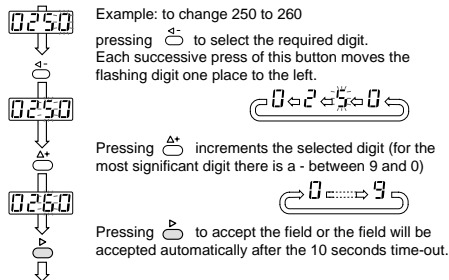
To enter function mode, press **F**



Note:
1 If **F** or **MAN** is not pressed within 10 seconds the instrument will time-out back to the process variable

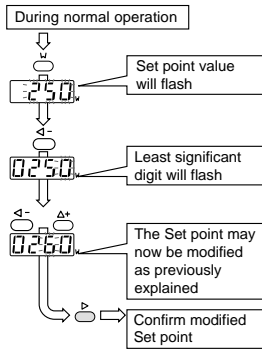
MODIFICATION OF A NUMERIC FIELD

It is possible to modify any numeric field by changing each digit in turn.

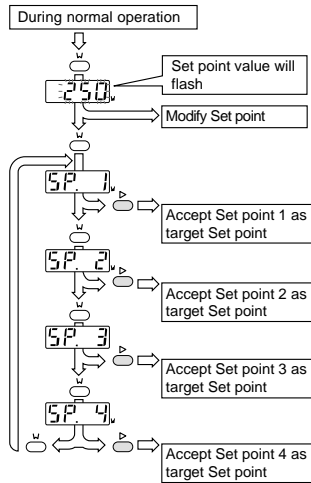


SET POINT

Modify Set Point



Procedure to recall a Set point from memory



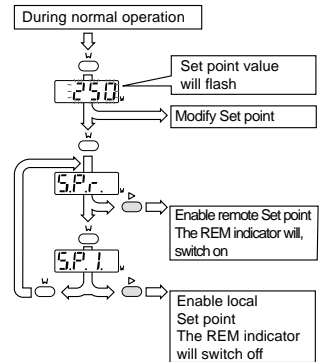
Note:
The above Set points may be modified from the 4th group within the parameter menu.
The displayed Set point is only effective from when **MAN** is pressed.

Note:
The Set point will be automatically accepted after the 10 seconds time - out.

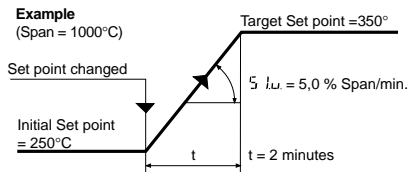
Note:
After the Set point has been modified the new target Set point will be reached after a period of time, depending upon the values entered in the $5L.u$ (Slope up) and/or $5L.d$ (Slope down) gradient parameters.
Whit Remote Set point we suggest, to set $5L.u$ and/or $5L.d$ to 0
The target Set point can be viewed at any time from the function menu.

... **F** \Rightarrow **SP 1**, Target Set point
If slope gradient is equal to zero there will be a step change

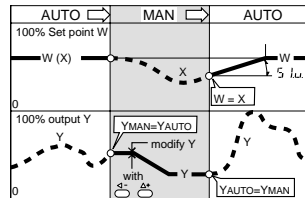
Local \leftrightarrow Remote



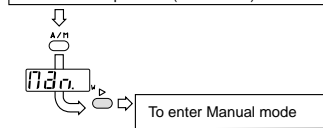
Note:
If a Remote Set point is selected, the instrument will store the Local Set point value shall be re-instated if the Local Set point mode is required



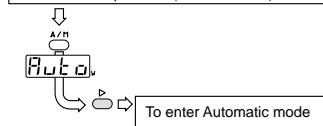
AUTO-MAN



From normal operation (Auto mode)



From normal operation (Manual mode)

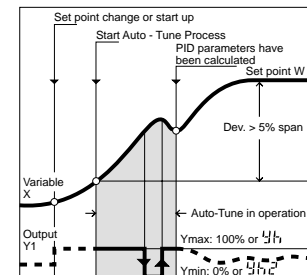


MIU. XS-5/94.11/E

TUNING

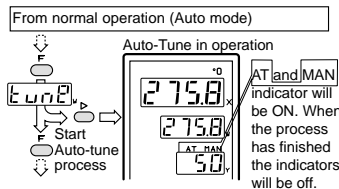
AUTO-TUNE

Auto-tune should be used when the instrument is first installed to provide approximate values for the P.I.D algorithm. When the auto-tune cycle has been completed, the values for P.I.D will be automatically entered.
It is possible to escape from the auto-tune procedure at any time by pressing any key.



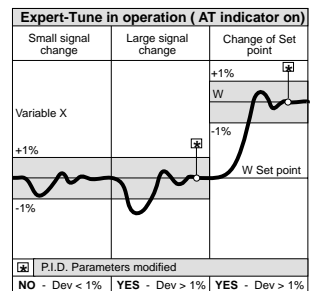
The Auto-tune function is available if the following requirements are met:

1. Parameter $REt.u = 1$ or 3
 2. The deviation > 5% span
- Auto-tune will function correctly:**
- if the X variable has to increase or decrease
 - if the heat/cool facility is selected the Auto-tune process will calculate the PID parameters for both heat and cool.



EXPERT-TUNE

The Expert-tune should be used to fine tune the parameters defined in the Auto-tune process. During normal operation the expert-tune continuously monitors the variable and fine tunes the PID parameters. This function will not effect the operation of the instrument. **It is possible to deactivate the process at any time by pressing any key.**



The expert tune facility is possible if instrument is in Auto mode

