

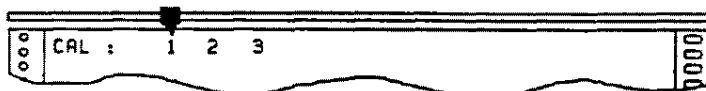


This menu allows the 0% and 100% calibration of each input.

Warning : The recorder should have been powered for at least 15 minutes and requires provision of accurate signal source to match actuation/range.

- Verify the alignment of the 0% actuation range limit with the 0% on the chart. If wrong alignment, undo the securing screws of the scale, reposition the scale and tighten the screws.
- The CALIBRATION menu is "hidden" and can only be accessed by a special combination of Function Keys while in the RUN mode
- To enter the CALIBRATION mode, press both  and  FOR 10 SECONDS and the recorder will print the channel numbers :



For a one-pen recorder : available channel number is 1 only.




For a two-pen recorder : available channel numbers are 1 and 2.

For a three-pen recorder : available channel numbers are 1, 2 and 3.

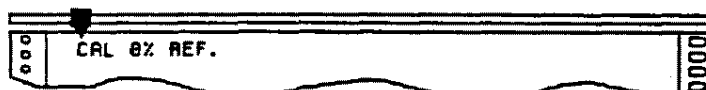


For a multipoint recorder : available channel numbers are 1, 2, 3, 4, 5 and 6.

When printing completed, the pointer will be positioned on channel 1.

- Press  or  to select the channel number you wish to calibrate.
- Press  to confirm your choice. (Your choice will be highlighted)

Now the recorder prints a message indicating that a reference source corresponding to the 0 % of the range on the chosen channel should be connected :



8. CALIBRATION

Warning : The source **MUST** correspond to the 0 and 100 % actuation input limits (total input range) for the channel and take into account the effect of cold junction temperature and thermocouple actuations.

- If you need to adjust the carriage calibration and analog calibration, connect your 0 % reference signal. If you just want to adjust the carriage calibration, open the input terminals on this channel.

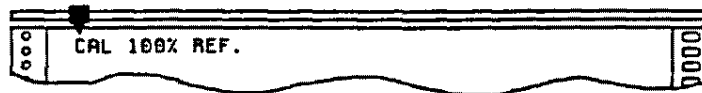
Then press **ENTER** to start the 0 % calibration.

Now the pointer will take up the current 0 % calibration position. If necessary, the **▶** and **◀** keys can be used to position the pen to 0 %. Chart will advance by one line each time the **▶** or **◀** keys are pressed. Each time the **▶** or **◀** keys are pressed, the recorder will reprint its mechanical references and be positioned on its new value.

- Press **ENTER** to confirm the new 0 % calibration.

It can take some seconds for the A/D converter to be calibrated.

Now the recorder prints a message indicating that a reference source corresponding to 100 % of the range on the chosen channel should be connected :



- If you need to adjust the carriage calibration and analog calibration, connect your 100 % reference signal. If you just want to adjust the carriage calibration, keep the input terminals opened.

Then press **ENTER** to start the 100 % calibration.

Now the pointer will take up the current 100 % calibration position. If necessary, the **▶** and **◀** keys can be used to position the pen to 100 %. Chart will advance by one line each time the **▶** or **◀** keys are pressed.

- Press **ENTER** to confirm the new 100 % calibration.

Calibration is now complete and the recorder will reprint the calibration menu.

- At this point, if necessary, the position of the next channel to be changed can be made and followed by selection of value.
- To return to RUN mode, the **SETUP** key should be pressed for a few seconds.

8. CALIBRATION

Note : If the difference between the 100 % and 0 % reference signals is under 25 %, then the calibration is canceled.

Extended values for thermocouple K and N are :

K 1400 °C = 55.824 mV

N 1400 °C = 51.067 mV

N 2500 °F = 50.026 mV