

Instructions Manual - Mini-chart

Changing Chart

In order to change the chart open the door using the security key provided with the instrument. The chart is removed by pushing the retaining bar on the centre hub (diagram 1a) to the open position (diagram 1b). The retaining bar is then rotated to the upright position (diagram 1c), so that the chart can be removed over the top of the centre hub. Place the new chart over the top of the chart retainer and rotate the lever back down so it is flat over the chart. Push the retaining bar back to the locked position (diagram 1a)

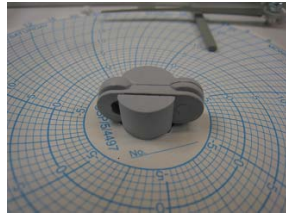


Diagram 1a

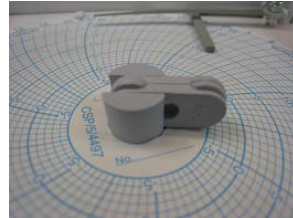


Diagram 1b

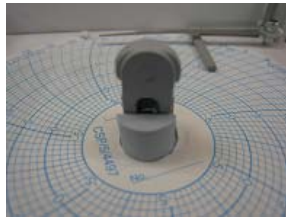


Diagram 1c

Aligning the chart with the pen – Press and hold the button located on the bottom left of the instrument until the chart rotates to the correct position.

Calibration

The Mini-Chart recorder is pre-calibrated and should require no adjustment; however, the pen position can be altered by holding the pen arm with finger and thumb near to the spindle and gently turning the M3 lock nut on top of the spindle with a nut-spinner. This can be repeated until the pen nib indicates the required temperature.

Breakdown

In the event of incorrect operation contact the manufacturer or the supplier for advice. **Dismantling will invalidate the warranty.**

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For remote bulb models Carefully uncoil the capillary and locate the sensor in the required position for optimum monitoring.

Wall mounted For wall mounting remove the chart and use the top and bottom holes on the rear of the instrument to fix to the wall with two suitably sized screws. See diagram



Panel mounted The panel mounted units have two integral clips which enable them to be easily mounted into a DIN size cut-out directly from the front. Insert the instrument into the cut-out and turn the door lock counter-clockwise by 90°C to open the door. Once the chart is removed the two large screw heads in the centre of the top and bottom edges should be gently tightened clockwise with a screwdriver to rotate and to draw the two securing lugs up towards the back of the panel. The Mini-Chart is now mounted securely. See diagram.



Battery powered

The battery is pre fitted and should not be removed. The battery is designed to power the unit for up to 5 years. The battery should be replaced by a 3V Lithium battery (positive is indicated on the label covering the battery department. To check the battery press and hold the button located on the bottom left of the unit, the chart should rotate one full revolution.



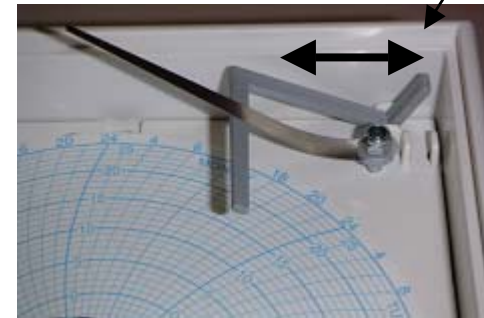
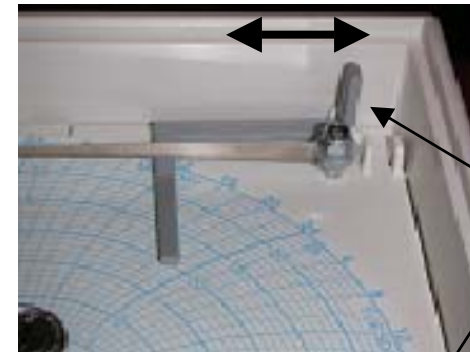
Mains powered

The Mini-chart should be connected to a suitable power supply with the lead provided. When connected a red LED in the top left hand corner will be lit. If the LED fails to light then check the supply.

Changing the pen

Wait until the unit is within its calibrated operating temperature range. Remove the pen from its packaging (remove & retain the tip seal) and gently moving the pen arm lifter to the right the pen arm will rise, slide the pen onto the pen arm taking care that the tip points toward the chart. Once the pen is located correctly move the pen arm lifter back to the original position. Undue force should be avoided as the pen arm is sprung to ensure optimum contact pressure with the chart. If at any time the pen arm is bent so that insufficient force is being applied to make a trace on the paper then the nib should be removed and light pressure

exerted on the arm as near as possible to the spindle until the other end of the pen arm is resting about 5mm from the paper. The pen nib can then be attached once again.



Door opening

A single lock located at the bottom right hand corner closes the door. The security key has a raised tab and this should be aligned with the slot in the lock in order to open the door. The key can then be turned 90° counter-clockwise.

