

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.

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.

Turning the unit On & Off

To switch the unit on firstly open the door, then move the switch located in the bottom left of the unit to the down position, a red LED light should illuminate. If the red LED fails to illuminate then please check power connections.

Calibration

The Mini-chart recorder is pre-calibrated and should require no adjustment. Contact Abacus Instruments should you have doubts to the accuracy of the temperature recording.

Breakdown

Do not tamper with the Pen Adjust Screws, as they are factory set, or the warranty will be voided. In the event of incorrect operation contact the manufacturer or the supplier for advice.

Dismantling will invalidate the warranty.

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Instructions Manual - Mini-chart



Wall Mounting 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.



Connections

The temperature probe should be connected to the terminals indicated on the rear of the instrument. Connect the white 2 core flex to a suitable power supply (230Vac). If the unit does not have a flex then please use the connections provided on the rear of the unit.

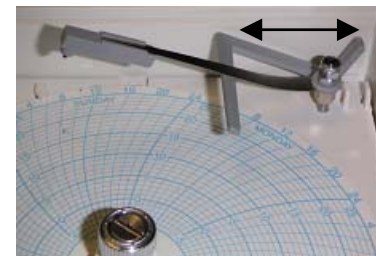
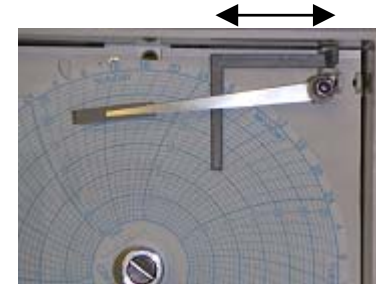


Door opening

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

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 using the pen arm lifter raise the pen arm gently holding the pen arm, slide the pen on to the end taking care that the tip points toward the chart. Once the pen is located relocate the pen using the pen arm lifter. 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 tip at the other end of the pen arm is resting about 5mm from the paper. The pen nib can then be attached once again.



Changing the Chart

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