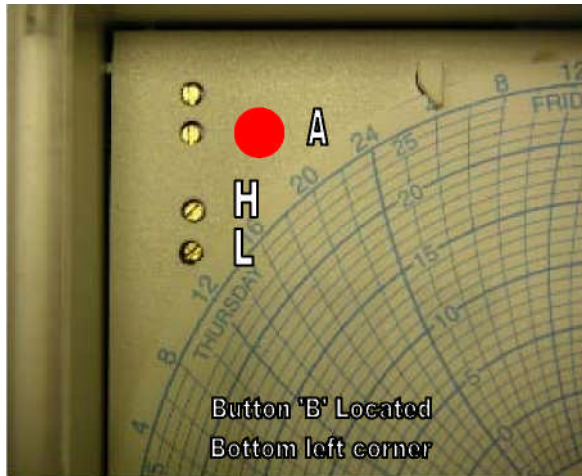


Setting the alarm

It is suggested that the user places an old chart, so as not to produce a trace on a new chart, when setting the alarm. To set the alarms press and hold button A the pen will move to the high alarm setting. To adjust this, turn the potentiometer marked H, whilst still hold the button marked A. Turning the potentiometer clockwise will increase the alarm set point, counter-clockwise will decrease the set point. To set the low alarm use the same method but hold the button marked B and use the potentiometer marked L.



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.

Mini-chart T.AL Instructions



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 cutout directly from the front. Insert the instrument into the cutout 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 draw the two securing lugs up towards the back of the panel. The Mini-chart is now mounted securely. See diagram.



Connections

The Mini-chart should be connected via the 3-core flex to a 240Vac power source. When connected and switched using the toggle switch located in the bottom left corner of the front panel a red LED in the bottom left hand corner will be lit. If the LED fails to light then check the supply, if this proves to be in working order then proceed to check the re-chargeable battery is located securely in the battery holder. **(It is important not to remove the rechargeable battery located under the chart, as the chart will cease to rotate.)**



The sensor (PT1 00/PT1 000) should be connected via the right hand terminal block as indicated. The volt free contacts can be connected via the left hand connector block.

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

In order to change the chart the centre hub must be removed. Take hold of the centre hub and turn the sprung, knurled centre cap by rotating it counter-clockwise, until it releases. The chart can then be slid off the instrument. Replace with a new chart by sliding the chart under the black retaining clips at the top of the instrument and position over the centre hole. To replace the sprung centre screw, re-align it with the hole, push the screw down and turn until it has tightened (it should only be finger tight).