

## **DATA LOGGERS:**

There has been increasing interest in the new data loggers that were introduced in last months TECH TIPS. There are, however, some questions that have arisen about this accessory.

### **CAN THE SHIPS LOG/ DATA LOGGER BE CALIBRATED?**

No. Even though the instruction booklet from Planer Products says that it can be that is a misprint and actually refers to the next upgrade of Data loggers due out shortly.

If someone is asking for calibration procedure they have three choices.

1. Send serial number of Ships Log/Data Logger to MVE-Chart and/or Planer. Planer can then issue a calibration certificate for that particular unit. All units are factory calibrated before shipping.
2. Send unit back to Planer for calibration.
3. LN2 Calibration Bath. Submerge the cork/cover with temp probe into a LN2 bath, taking temp readings every 2-3 minutes. This procedure will verify temperature accuracy (-196C).

Planer is currently working on a calibration procedure that will enable MVE-CHART to calibrate the Data Loggers at our plant. I should be receiving the procedure sometime this month.

Also Planer is working on new software to enable the customers to carry out the calibration of the shipslogs themselves. This will be available in Feb. 2002.

### **HOW CAN I MODIFY THE PLASTIC SHIPPING CONTAINERS TO FIT THE INCREASED HEIGHT OF THE DATA LOGGER?**

The plastic shipping carton for the SC4/3V and the SC4/2V with Data Loggers can be made to properly fit the dewar by removing all but one of the bottom protection pads beneath the vapor shipper.

The cryoshipper and cryoshipper mini should have one white polystyrene pad on the bottom and a .500 inch thick foam pad on the top cover.

## **XLC FREEZERS TECHNICAL BULLETIN:**

### **CORRECTIONS TO THE TEC 2000 OPERATING MANUAL AND INSTALATION MANUAL CONCERNING ALARMS**

1. There is a misprint in the installation manual that is included with each XLC freezer, (pn10910286). On page 6 in the second column or rather section 6 the manual states "After a 15 second delay, the alarm will sound..." That number should be 30 minutes instead of 15 seconds.
2. The text in the first paragraph of page 4-13 of the TEC 2000 user manual (pn10753946 rev C) is in error where it indicates that all alarms are latching excluding 7a and 9. The open temperature alarms 5b and 6b are non-latching. When an open temperature sensor condition is corrected, the alarm is automatically cleared,

usually replaced by a latching high temperature alarm. When the sensor is reconnected, the indicated temperature will start out high and ramp down to the actual temperature of the sensor. Even if the sensor is already at a temperature below the high temp alarm setting, a high temperature alarm will be initiated as the indicated temperature ramps down.

The open sensor alarm cannot be disabled without disabling the high temperature alarm, which is undesirable.

The main concern is that an intermittent open circuit will generate a high temperature alarm when it corrects itself. You need to be able to determine whether there was a legitimate high temperature problem or an open circuit. The determination can be made in one of two ways.

A record will be created in the internal data log and the printer output log each time an event occurs as well as when it ends. Thus, when it goes into a high temperature alarm condition, it will create a record in addition to the records at programmed intervals. When the sensor circuit is open, the data record will not record open as would be seen on the display. It will record a temperature value of 71.5 C, the temperature represented by infinite resistance at the sensor. If you have a questionable alarm condition, you can download the internal data log, or review the printed log. Any temperature record of 71.5C is an open sensor indication.

**IS THERE A MECHANISM BY WHICH THE WHEELS OF THE LN2 FREEZERS CAN BE LOCKED TO PREVENT THEM FROM ROLLING (IN THE EVENT OF AN EARTHQUAKE OR UNANTICIPATED NATURAL DISASTER)?**

As of now we can get the 1520HE casters with brakes. A part number has been added to the system for it. We are continually searching for braking casters on other non-cabinet models.

**MARK YOUR CALENDARS – DISTRIBUTOR TRAINING:**

The dates for this years Cryo Distributor Training will be Thursday, September 12<sup>th</sup> – Saturday, September 14<sup>th</sup>, and will be held in Burnsville, MN. Some of the items included will be plant tours of the New Prague, Lonsdale, and Burnsville locations; new products; competitive comparisons; marketing; technical issues and hands on repair training for XLC units. If there is anything in particular that you want to see covered please let me know so that it can be included in the agenda. Please watch future Tech Tips for more detailed information on the September Cryo Training.

I look forward to seeing everyone there!

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For copies of past Tech Tips or for more information on maintaining your nitrogen storage dewars please contact Jim Bachman at (952) 882-5168, Pager (612) 579-8367, Fax (952) 882-5175.