

## DR 4200 Circular Chart Recorder Model GP

## Supplementary Data For Liebert Recorder

### Nature of Modification

This DR 4200, two-pen recorder has been configured at the factory to measure and record a temperature range on pen 1 and a humidity range on pen 2. This means that your recorder is already setup for operation, so you can skip the instructions in Section 2 (Set Up Tasks) of this Product Manual.

The factory settings made on the Main PCB for pen 1 (temperature) are shown in Figure S1. Figure S2 shows the factory settings made on the Main PCB for pen 2 (humidity).

In addition, an output PCB has been mounted on the Main PCB for pen 2 and wired to the Main PCB terminals as shown in Figure S3. Note that color coded leads have been attached to the RTD type temperature sensor and the humidity sensor (supplied with recorder). Figure S3 shows the wiring of the sensors to the appropriate PCBs in the recorder.

### Calibration Note

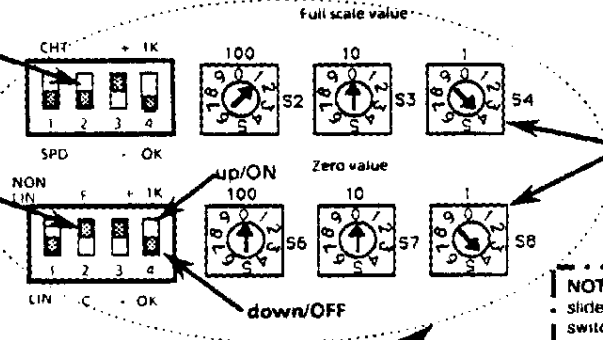
Environmental conditions at the sensing unit, such as restricted air flow or a similar condition, may cause a small variation in the temperature indication. To correct for this variation, you can adjust S4 and S8 on the Main PCB for range 1 (PCB on right only). Adjust both switches the same amount above or below the setting shown in Figure S1.

### Replacement Parts

Item	Liebert Part Number	Honeywell Part Number
0-100 , 7 day Chart paper	K-0170	24001661-001
Pen 1 , Purple	K-0210	30735489-007
Pen2, Red	K-200	30735489-002
Main PCB	1C29331P1	30755804-501
Output PCB	1C29332P1	30755808-503
Motor, Chart	1C29333P1	30756113-501
Motor, Pen Assy.	1C29334P1	30755833-502
Temp/Humidity Sensor	1C29335P1	30756646-501

Factory Settings for 7 day chart speed.  
To obtain 24 hr. chart speed, move 2 to up position.

Factory Setting for °F.  
To obtain °C, move 2 to down position.

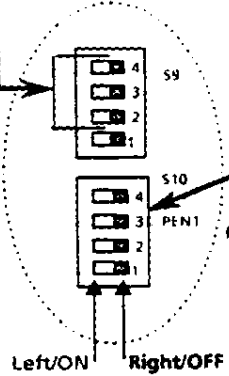


Settings for 0 to 100 °F chart (linear)

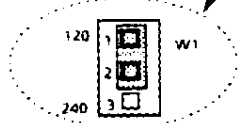
NOTE: DIP switch positions shown are for slide type switches. For rocker type switches, ON/OFF positions relate to rocker positions as shown below. When you can see red dot on rocker, opposite rocker position is active.

Settings for RTD actuation

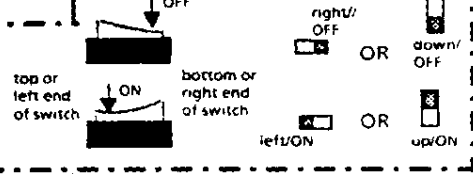
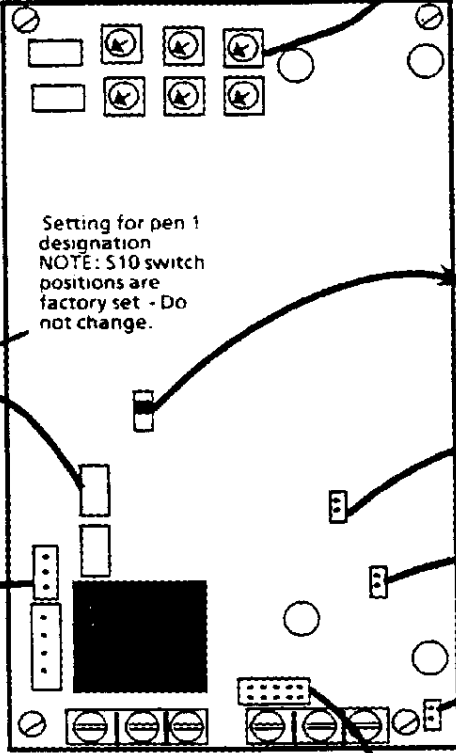
Main PCB 1



Setting for pen 1 designation  
NOTE: S10 switch positions are factory set - Do not change.



Factory Setting for 120 Vac Operation.  
For 240 Vac operation, move jumper to positions 2 and 3.



W10 W3 RUN Mode

W8 50mV 50 mV range jumper

W7 20mV No jumper

W9 T/C No jumper

RTD input signal jumper No jumper

No jumper W4 W5 W6 W11 Millivolt input signal jumper

No jumper

Legend

- Jumper installed
- No jumper

Figure S1 - DIP switch and jumper locations on Main PCB for pen 1 RTD type temperature sensor RTD (Right Side).

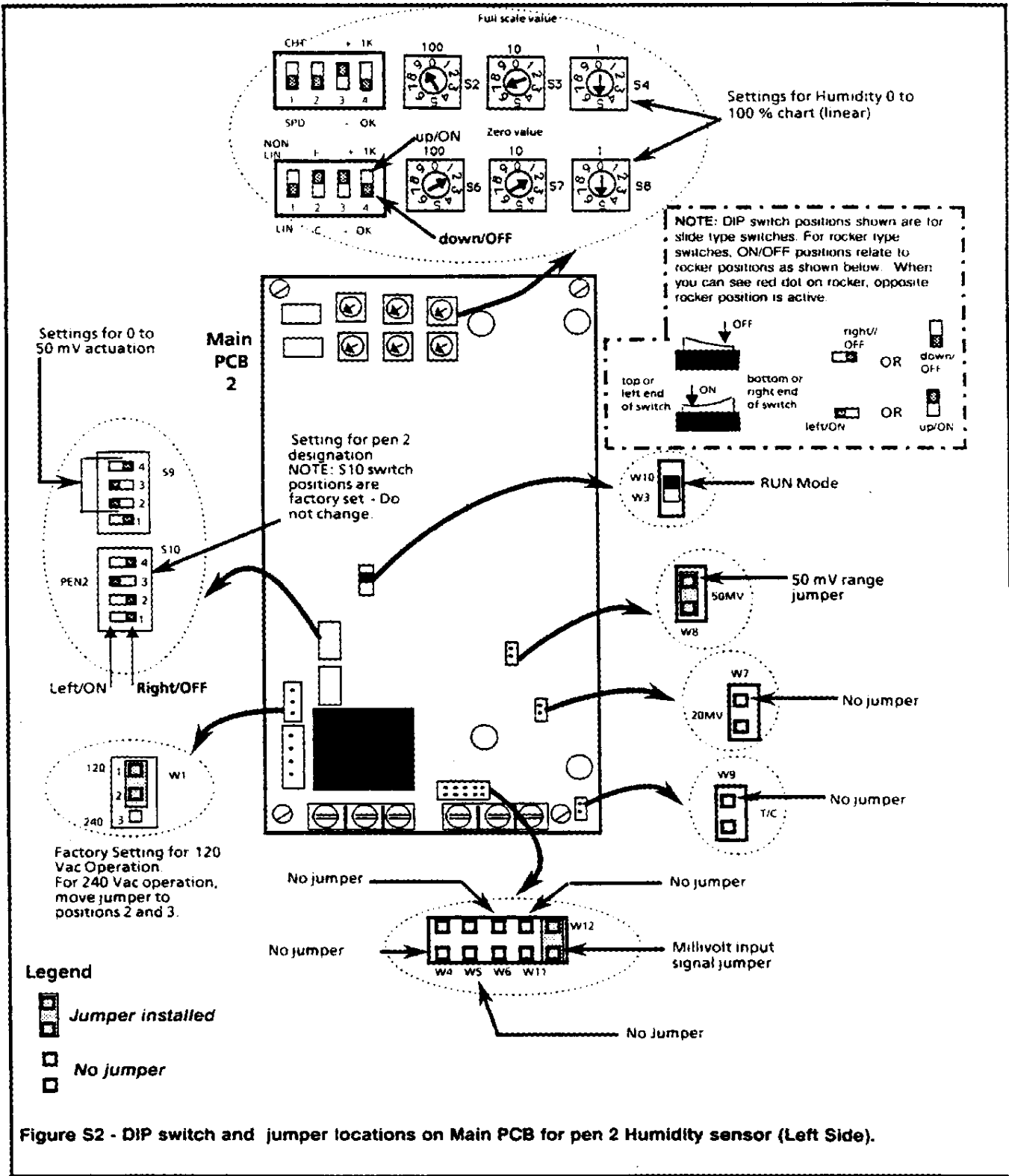


Figure S2 - DIP switch and jumper locations on Main PCB for pen 2 Humidity sensor (Left Side).

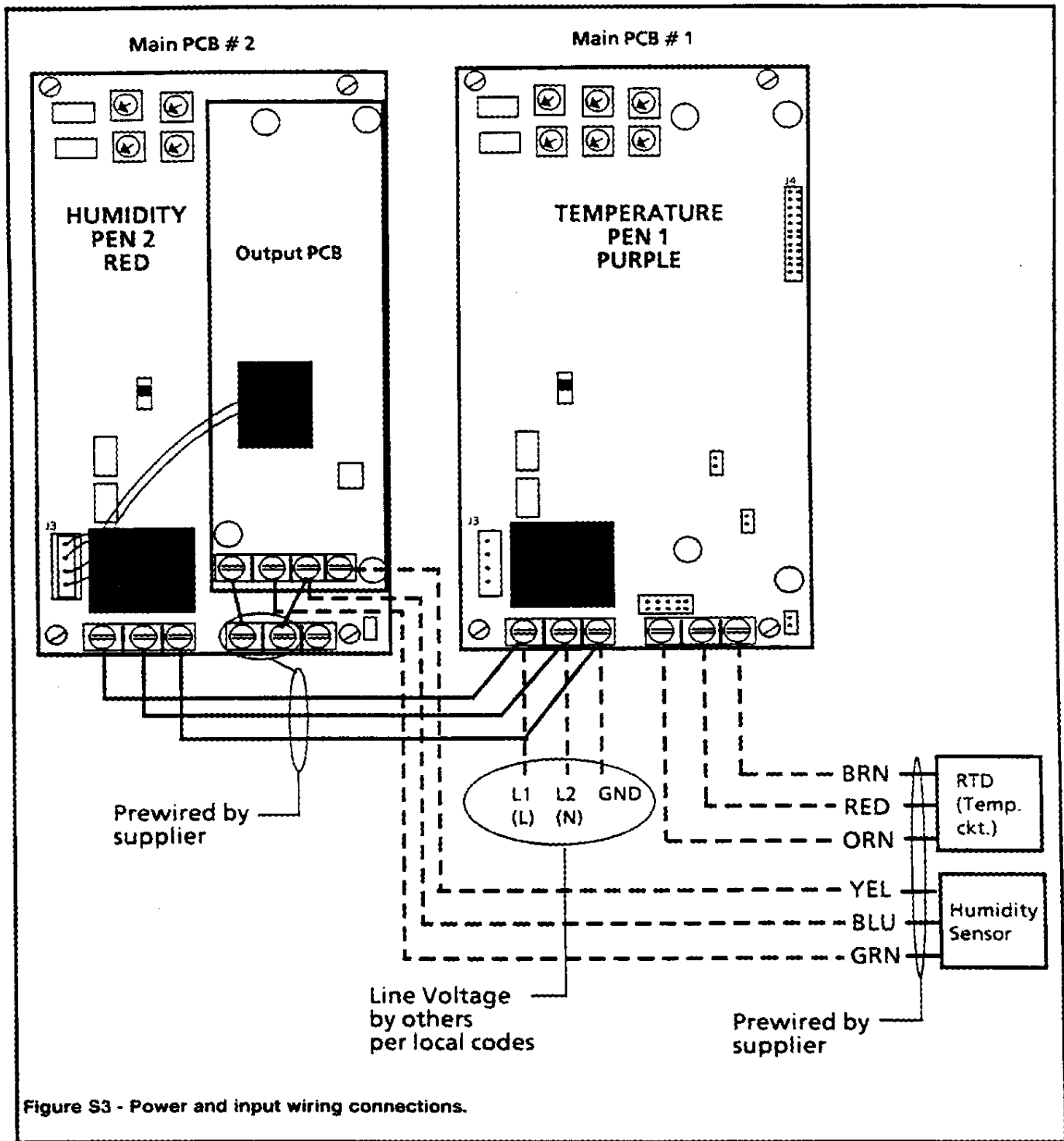


Figure S3 - Power and input wiring connections.