**Calibration Tables** 

"Zero" Table

Tmin °C	SW1	SW2	SW3
-5015	0	0	0
-15 15	1	0	0
15 48	0	1	0
48 82	1	1	0
82 115	0	0	1
115147	1	0	1
147180	0	1	1
180215	1	1	1

"Span" Table

SPAN	SW4	SW5	SW6
30 50	0	0	0
50 75	0	1	0
75130	1	0	0
130185	1	0	1
185350	1	1	0
350850	1	1	1

Note: "1" represents the switch "ON" state.

Example Range needed:Tmin = -50°C Tmax = 100°C The Span is 150°C The switch setting will be: 000101

1	2	3	4	5	6
					$\Box$

ConLAB
RTR-2
CALIBRATION

## RTR-2 CALIBRATION INSTRUCTIONS

The RTR-2 is a multi-range Pt-100 transmitter.

Six DIP-Switches are located behind the red sliding cover for coarse ranging. The cover should gently slide inward.

Zero & Span potentiometers provide the final fine tuning.

Calibration

To calibrate the RTR-2, the limits must be defined. T min is the temperature at which the transmitter output current is 4mA.

T max is the temperature at which the transmitter output current is 20mA. The difference between T max and T min is defined as the "Span" of the transmitter.

An array of six DIP-Switches controls the transmitter coarse range. Set switches 1 to 3 control the Zero (T min), and set switches 4 to 6 control the Span.

- Connect a Pt-100 calibrator (DIN 43760  $\alpha$ = 0.00385) between terminal #6 and #4 and short-circuit terminals #4 and #3
- Set the calibrator to T min
- Adjust the Zero potentiometer to obtain an output current of 4.000mA.

- Set the calibrator to T max
- Adjust the Span potentiometer to 20.000mA
- Repeat until satisfactory results are achieved
- Note: The calibrator can be replaced by accurate resistor decade

## Connection Diagram

