

# Model SW-10A Sensor Selector Switch

## Installation Instructions

### 1.1 Introduction

The Model SW-10A is a 10-Sensor Selector Switch for use with DRC thermometers and controllers. The SW-10A has push-button selection of any one of up to 10 sensors. The SW-10A connects to the Sensor B position of the DRC instrument and includes an umbilical which ties to the DRC instrument's internal socket JC to inform the instrument of the remote switch setting.

### 1.2 Connections

Table 1 shows the functions of the 36-pin "Sensors" input of the SW-10A.

### 1.3 Installation

The following procedure is used to connect an SW-10A to a DRC series instrument.

**WARNING:** All external connections must be removed from the Model SW-10A and DRC instrument before proceeding with these instructions. With external connections in place, lethal voltages are exposed inside the instrument.

1. Remove the DRC instrument cover. Thread the 16-pin umbilical cable of the SW-10A through the slot in the DRC rear panel and plug into the JC socket (see the Component Layout of the DRC unit for placement) noting Pin 1 to Pin 1 alignment.
2. Replace DRC cover.
3. Install 18-inch cable with 5-pin male connectors on each end (supplied with SW-10A) between 5-pin output connector of SW-10A and input B of DRC instrument.

**Table 1. SW-10A "SENSOR" Connector Detail**

<i>Function</i>	<i>Sensor</i>	<i>Edge Connector Contact</i>	<i>Function</i>	<i>Sensor</i>	<i>Edge Connector Contact</i>
Shield	All	1	V+	6	M
I-	All	2	V-	6	N
V+	1	A	I+	6	8
V-	1	B	V+	7	P
I+	1	3	V-	7	R
V+	2	C	I+	7	9
V-	2	D	V+	8	S
I+	2	4	V-	8	T
V+	3	E	I+	8	10
V-	3	F	V+	9	U
I+	3	5	V-	9	V
V+	4	H	I+	9	11
V-	4	J	V+	10	17
I+	4	6	V-	10	18
V+	5	K	I+	10	12
V-	5	L			
I+	5	7			

If you have any questions or difficulties, please call Lake Shore Cryotronics, Inc. at (614) 891-2243 and ask for Service.