

# INTRINSICALLY SAFE ALARM T-IS

## 1. CONNECT BATTERY

The battery pack connects with the JST connector. Only battery model BT-IS may be used. Battery is Intrinsically Safe and may be changed in the hazardous area. Refer to control drawing IS-001.



BATTERY BT-IS

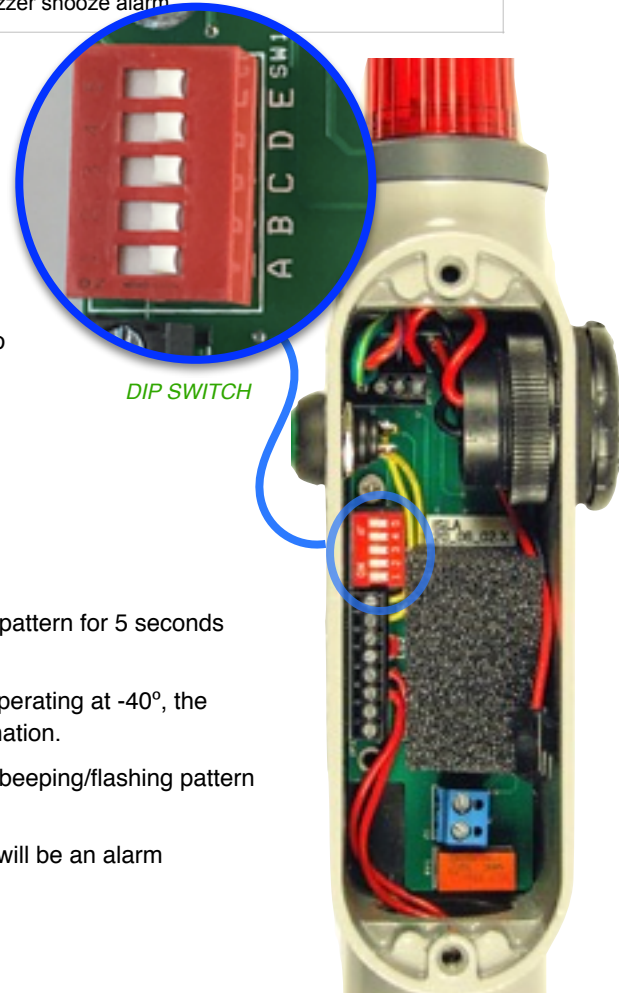
## 2. PROGRAM DESIRED MODE

The modes available are selected using the DIP switches as follows:

SWITCH	ON (away from letters)	OFF (towards letters)
E	Relay output delayed 15 mins.	Relay output is immediate.
D	Relay N.O.	Relay N.C.
C	Auto reset of LED, buzzer and relay when level is corrected.	Manual reset: must push button after level is corrected to reset LED and relay.
B	PB shuts off buzzer, but LED & relay stay on until both level is corrected.	Pressing button shuts off buzzer and LED, and resets relay, regardless of level.
A	30 min. buzzer snooze alarm.	No buzzer snooze alarm

## 3. OPERATION

- When there is a level alarm, the LED and buzzer will alternate. The button silences the buzzer. In the mode with switch #2 "ON", the LED will continue to flash until level is corrected. If switch #1 is "ON" the buzzer will sound again after a 30 minute "snooze".
- If the alarm sounds for 60 minutes, the alarm output will be reduced to save battery power. After 60 minutes, all alarms will be reduced to only 5 sec. every 30 seconds. This allows the alarm to last for up to 600 hours (25 days) in this power-saving mode.



DIP SWITCH

## 4. OTHER POINTS

- Operating temperature is -40°C to 60°C. (-40°F to 140°F)
- Low battery is indicated by an alarm with which has a rapid beeping pattern for 5 seconds every 30 seconds.
- Very low temperatures will diminish the battery life. For example if operating at -40°, the battery will be reduced by half. See website for more detailed information.
- If there is a second sensor connected,(on LS2) it will have a slower beeping/flashing pattern from the first sensor. (slow vs. fast pattern)
- If there is a cable connecting to the box,the sensor is N.C,. so there will be an alarm and relay output if the cable becomes disconnected.

## 5. RELAY OUTPUT

- If the relay output is to be connected, follow parameters in

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“Control Drawing “IS-001” so the remote device in the “safe” area does not introduce an unsafe voltage into the hazardous area. Connect the remote device through an Intrinsically Safe barrier. . Connect the output cable to the T-IS using the cable with screw-lock connector provided.

## 6. EXAMPLE INSTALLATION

- Install T-IS on a tank or drum by screwing the mounting thread into the tank or drum.



*DRUM WITH T-IS ALARM*