

INTRINSICALLY SAFE ALARM BOX

Battery powered alarm for hazardous locations responds to a contact close with a loud buzzer and flashing LED.

Model IS-AB is a rugged alarm box that can be installed in minutes with no wiring. Just connect the battery and wire to your input.

OPERATION

When the alarm box receives a contact close or open, it responds with a 102dB warbling alarm and flashing LED. Used with float switches, temperature switches and other sensors and controllers.

FEATURES

- Lithium battery included lasts for many years - 20-year shelf life.
- Class 1, Div. 1. groups C and/or D, T4. 60079-0 and 60079-11.
- Waterproof. Suitable for wash-down duty and outdoor use. IP65.
- Accepts up to 3 NC inputs, provides "Broken Wire Detection"
- Optional relay output.
- Many behavior modes are selectable in the field using switches located inside the box. (repeating alarm, button turns off buzzer and LED for tank filling,, etc)
- Lithium battery is replaceable in the field. Lasts for years. Low battery alert.



LABEL VIEW

INTRINSICALLY SAFE ALARM IS-AB

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	LEFT	RIGHT
E	Relay output delayed 15 mins.	Relay output is immediate.
D	RelayN.C	Relay N.O.
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 minute buzzer snooze alarm	No buzzer snooze alarm

3. OPERATION

- When there is a level alarm, the LED and buzzer will alternate. The front 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 is not acknowledged 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.

4. OTHER POINTS

- Operating temperature is -40°C to 60°C. (-40°F to 140°F). Rated for outdoor use.
- 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.
- Low battery is indicated by an alarm with which has a rapid beeping pattern for 5 seconds every 30 seconds.
- 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)

5. RELAY OUTPUT

- If your model includes a relay output, follow notes in "Control Drawing "IS-001" so the remote device in the "safe" area does not introduce an unsafe voltage into the hazardous area.
- The remote device must be connected through an Intrinsically Safe barrier. .
- Connect the output cable to the IS-AB using the cable with screw-lock connector provided.

