

# Remote Alarm Delay Module

## Operation

The Remote Alarm Delay Module monitors a Normally Open or Normally Closed switch or contact for alarm condition. The unit produces an audible and visual alarm when the monitored switch or contact is in its alarm state for longer than a user-programmable delay time. The unit also provides a relay output that signals its alarm status.

The left-hand TIMING LED blinks green when the monitored Alarm Contact Input is in its normal condition. It blinks yellow when the switch is in its alarm condition. After the user-programmable delay time, the unit will blink the ALARM LED and sound the audible alarm. The user should press MUTE to silence the audible alarm for a user-programmable mute time. The ALARM LED will continue to flash and the output relay will stay its alarm condition. Returning to normal operation, meaning the monitored switch returns to the normal condition, will clear the mute and reset the alarm.

Annual testing of the unit is suggested.

## Setting the Mute and Delay Periods

Setting	Mute (minutes)
1	5
2	10
3	15
4	20
5	30
6	60

To set the Mute time, hold the MUTE button until the ALARM LED begins a quick flash sequence. After the LED goes out, tap the MUTE button the desired setting count, between 1 and 6 taps. After a pause, the ALARM LED will flash the new setting. A single long pulse signifies failure and no change.

To determine the current Mute setting, tap the MUTE button. The ALARM LED will blink the current setting.

\*\*For Beeper, double tap the MUTE button 10 times

Setting	Delay
1	0
2	30 sec
3	1 min
4	5
5	10
6	30

To set the Delay time, hold the DELAY button until the ALARM LED begins a quick flash sequence. After the LED goes out, tap the DELAY button the desired setting count, between 1 and 6 taps. After a pause, the ALARM LED will flash the new setting. A single long pulse signifies failure and no change.

To determine the current Delay setting, tap the DELAY button. The ALARM LED will blink the current setting.

## External Connections

All external connections, and one slide switch, are on the bottom rear of the case, shown above. From left to right, the functions are:

- Relay output connection (contacts), single pole, double throw (SPDT), for connection to a remote alarm or monitoring system. The COM/NO side closes on alarm, and the COM/NC opens on alarm.
- Push button to set the probe calibration, described above.
- EXT Switch input - not applicable to LD-215
- RTD input for cryogenic RTD.
- Power input for 6-12 volt DC power supply. Note that GND is (-) and 6 to 12 volts DC is (+).

**Wire Installation**     AWG min. 24, max 16.

- Open the connector by pushing the white release button. You may use a small Phillips (shown) or similar. Use the hole to position the tool.
- Put the stripped wire in the hole behind the white push-to-open button, release the white button, do a tug test.

**Selecting  
Normally Open /  
Normally Closed**

The switch or alarm contact to be monitored should be inserted into the "Alarm Contact Input" connector. The slide switch should be positioned to define monitoring of the Switch Input as "Normally Open" or "Normally Closed". A normally open switch is open when not in alarm and closes when in alarm.

**Battery**

The Remote Alarm Delay Module uses two NiMH AA cells for backup of operation.

Insert the cells in the compartment at the back of the unit. Please note that polarity must be observed, to prevent damage to the LD-215 internal battery voltage monitor.