

## Parameter Setting Example via Menu

To Adjust Hi alarm value

Press **mute** & **adj** together and hold



Press **res** (once)



Release **mute** & **adj**



Press **hi** 7 times  
(display will read HI ALM = (Value))



Press **adj**



Select a Channel



Press **hi** (to change channel)



Press **adj**  
(display will read ADJUST THE VALUE)



Press **hi** to increase value or **lo** to decrease value



Press **set**

*(within 30 seconds or display will go back to normal & changes will be ignored)*

## For Quick Set of hi and lo Alarm Setpoint

Press **hi** or **lo**

Press **adj**

Use **hi** or **lo** to adjust value  
Press **adj** to select 'ENABLED'

Press **set**

*(within 30 seconds or display will go back to normal & changes will be ignored)*

# PROTECTOR 6

## Instructions for use



Note: The internal battery link between terminals 18 & 19 has been removed for shipping.  
**This link must be remade for the unit to operate.**

### **Connections:-**

240V ac Supply	Terminal 24 (Live) Terminal 23 (Neutral) Terminal 22 (Earth)
Battery Link	Terminal 18 & 19
Alarm Relay	Terminal 17 (Common) Terminal 16 (N/C) Terminal 15 (N/O) Note: The relay is fail safe hence N/C contacts are closed when unit is in alarm condition
Buzzer	Terminal 14 + Terminal 13 -
Defrost Switch	Terminal 11 & 12 (Note Closed cct = Defrost)
Door Switch	Terminal 10 & 11 (Note Closed cct = Alarm) (Factory selectable)
PT1000 sensor	Channel 1; Terminal 1 White, Terminal 2 Red Channel 2; Terminal 3 White, Terminal 2 Red Channel 3; Terminal 4 White, Terminal 5 Red Channel 4; Terminal 4 White, Terminal 5 Red Channel 5; Terminal 7 White, Terminal 8 Red

## Channel Selection

The channels can be scrolled through by pressing the set button until the desired channel is selected.

### Alarm Parameters

#### **Mute Delay**

Set in minutes 0 – 99, this is the period that the buzzer will be muted for if the “mute” button is pressed following an alarm. If the alarm is still present on time out of the mute period then the buzzer will re-sound.

If an additional alarm occurs during the mute period then the buzzer will also sound.

#### **Door Alarm Delay**

Set in minutes 0 – 99, during this period the LED indicator will flash. On time out of the door delay period the LED will light solid, the buzzer will sound and the alarm relay contacts N/C will close.

#### **Power Delay**

Factory set to 0. This parameter is for special options and should not be altered without reference to the manufacturers.

#### **Defrost Delay**

Set in minutes 0 – 99, whenever the defrost contacts are closed all temperature alarms are ignored. The door and power fail alarms are still active. When the defrost is complete and the contact opens the defrost delay period starts. Again during this period all temperature alarms are ignored.

#### **Offset**

Factory set to 0. This parameter is for special options and should not be altered without reference to the manufacturers.

#### **Scale**

Factory set to 0. This parameter is for special options and should not be altered without reference to the manufacturers.

#### **Length**

Factory set to 0. This parameter is for special options and should not be altered without reference to the manufacturers.

#### **Hi Temp Alarm**

Set in degrees C –99/+99

#### **Lo Temp Alarm**

Set in degrees C –99/+99

#### **Hi Temp Alarm Delay**

Set in minutes 0 – 99, during this period the LED indicator will flash. On time out of the Hi Temp Alarm Delay the LED will light solid, the buzzer will sound and the alarm relay contacts N/C will close.

#### **Lo Temp Alarm Delay**

Set in minutes 0 – 99, during this period the LED indicator will flash. On time out of the Lo Temp Alarm Delay the LED will light solid, the buzzer will sound and the alarm relay contacts N/C will close.

**NOTE. Where used the alarm delay function should not be set to less than 5 minutes. i.e set to 0 (default) or >5 mins**

### Operator Settings

The alarm parameters are found in the settings menu.

This is accessed by pressing and holding the adj & ‘mute’ buttons together and then pressing the ‘res’ button. The alarm parameters can be scrolled through using the hi and lo buttons. When the desired parameter is displayed the adj button can be pressed to input a new value. This is done using the hi and lo buttons.

**On completion the ‘set’ button must be pressed to store the set values. You must set each individual channel settings.**

Note: The display will revert to normal after 30 seconds. If a change has been made but the ‘set’ button has not been pressed then the new value will not be stored.

#### **Alarm Test**

During normal operation pressing the ‘res’ button will provide a 3 second display, buzzer and LED test. This does not alter the alarm relay contacts.

#### **Battery Back-up**

The internal battery will provide a minimum of 2 hours battery backup following a power failure. This can be extended by connecting external batteries. Please contact the manufacturer for details.

#### **Instrument Mounting**

The Protector 6 is a wall mounted unit and can be attached via the two slots located in the terminal compartment and the slot on the raised section on the rear of the instrument. (See picture below)

