



## PureAire 99185 Remote Digital Display Alarm Indicator Instruction Manual

[Home](#) » [PureAire](#) » PureAire 99185 Remote Digital Display Alarm Indicator Instruction Manual 



**Remote Digital Display Alarm Indicator**  
**Part #: 99185**

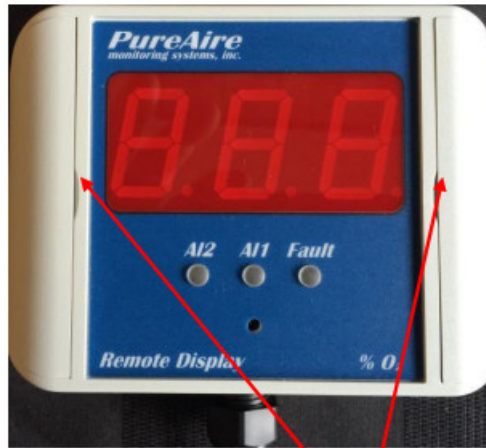
The Remote Digital Display Alarm Indicator provides continuous information on the status of PureAire's line of oxygen deficiency and carbon dioxide monitors, O<sub>2</sub> analyzers, or gas detectors. All PureAire safety monitors have a built-in mA output. The Remote Display Alarm easily connects to the monitor's input power and mA output connection. n 18 AWG, three conductors, shielded control and instrumentation cable, Belden 8770 or equivalent, is recommended for the connection. The maximum permissible cable length is 250 feet. The Remote Display can also be connected to a programmable logic controller (PLC), providing simultaneous alarm and status indications in multiple locations throughout the facility.



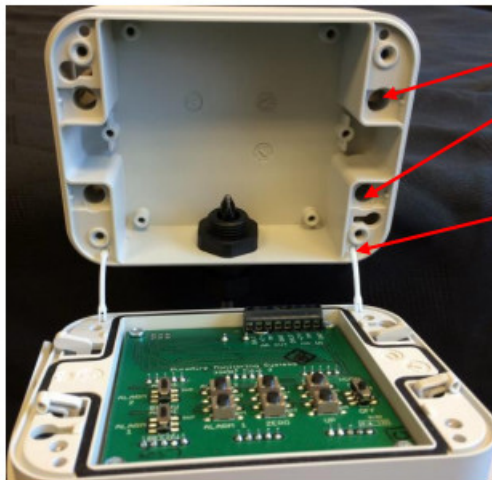
## Contents

- [1 How to mount the Remote Display Alarm Indicator](#)
- [2 How to wire the Remote Display Alarm Indicator](#)
- [3 Identification of switches and controls](#)
- [4 How to Setup and Operate the Remote Display](#)
- [5 How to set the zero and full-scale range](#)
- [6 Documents / Resources](#)
  - [6.1 References](#)
- [7 Related Posts](#)

## How to mount the Remote Display Alarm Indicator



- 1) Open the two side doors to expose the front panel screws.
- 2) Loosen the 4 screws to separate the front panel from the case.



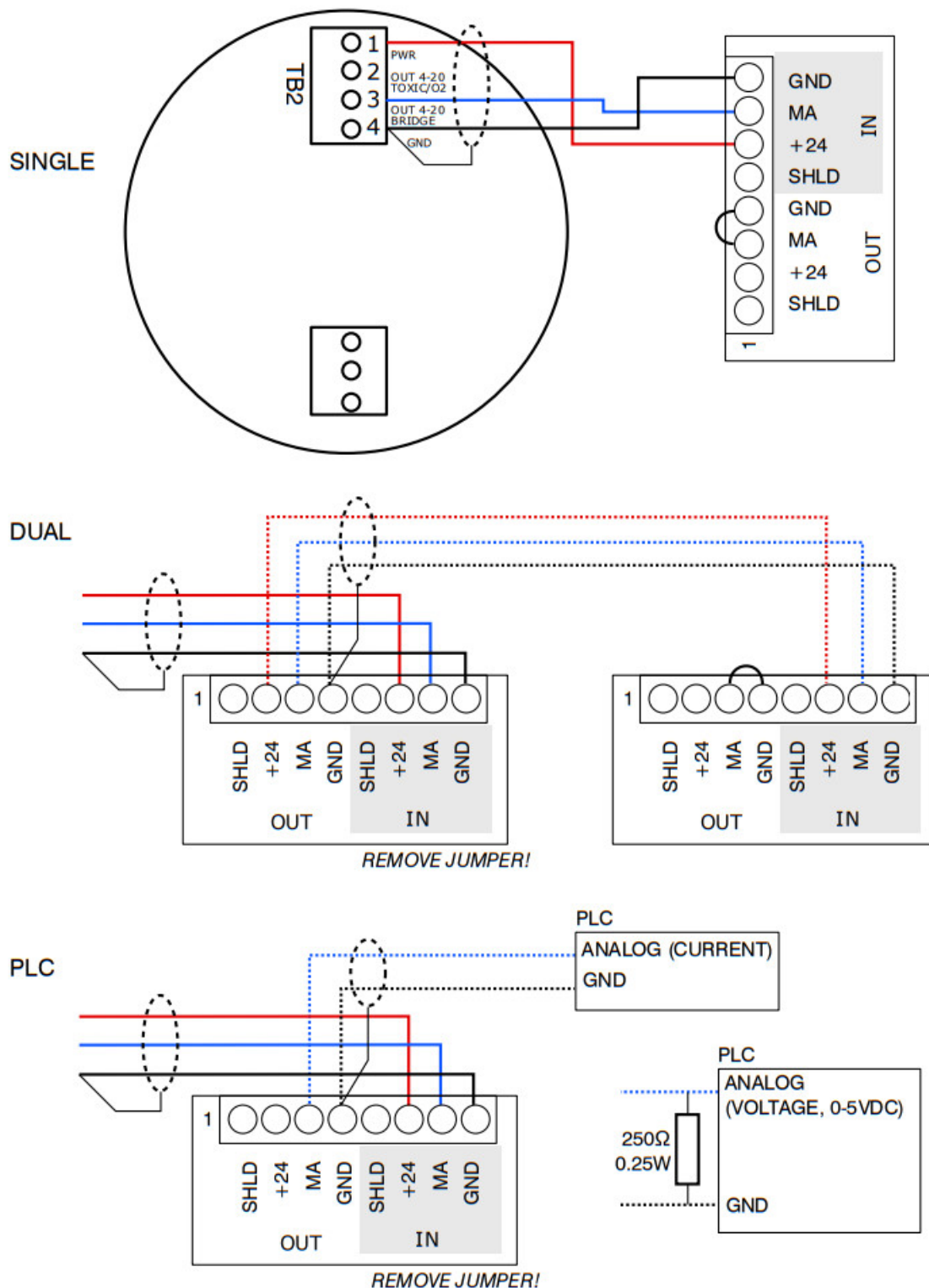
Mount the case to a wall or other flat surface. There are 4ea. through holes for fastening the case.

The case is designed to be flush mounted.

NOTE: The front cover can be removed from the case by gently pulling on the plastic hinges. (they will stay connected to the front cover. To connect the front cover, just push the plastic hinge into the case.

## How to wire the Remote Display Alarm Indicator

An 18 AWG, three conductors, shielded control and instrumentation cable, Belden 8770 or equivalent, is recommended for the connection.



## Identification of switches and controls

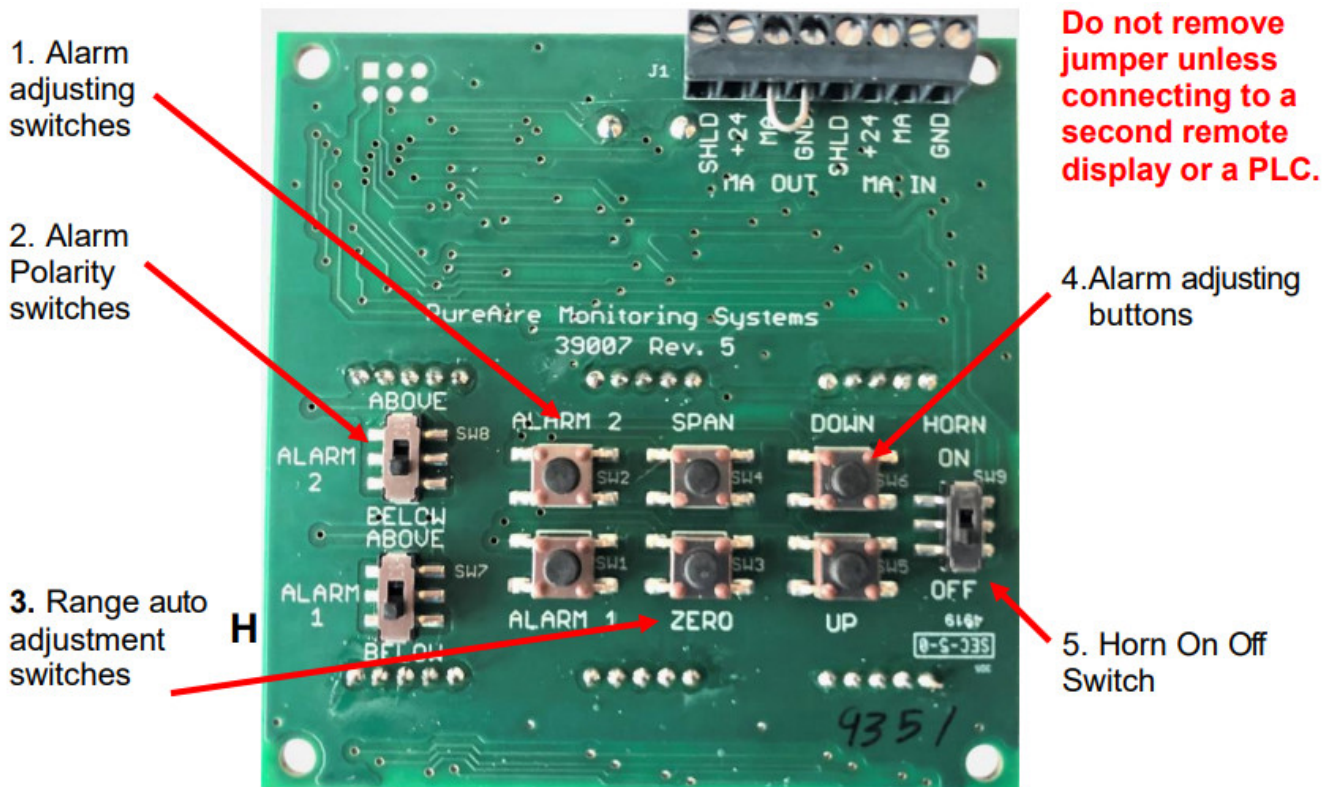
### Identification of switches and controls

1. **Alarm Adjusting Switches** – These switches are used to select the alarm level to be adjusted. They are factory set at 19.5% for Alarm 1 and 18% for Alarm 2. (Normally set at the factory)
2. **Alarm Polarity Switches** – These switches are used to select when the alarms will activate. For oxygen, the alarm switches are set for “Below”. If the readings go below an ambient level, (i.e. 19.5%), then the internal horn and LEDs will activate. When used with our toxic gas monitors, the polarity is set to “Above”. (Normally set at the factory)
3. **Range Auto Adjustment Switches** – These switches are used to adjust the zero and full-scale reading on the



Remote Display Alarm Indicator. When sending a 4mA and 20mA signal from your monitor, pushing these switches will automatically adjust the zero and full-scale readings on the Remote Digital Display.

4. **Alarm Adjusting Buttons** – These buttons are used to increase, (UP) or decrease (DOWN) the alarm settings. PureAire Monitoring Systems, Inc.
5. **Horn On/Off Switch** – This switch is used to turn the internal audio horn on and off. In the On position, any alarm will activate the audible horn. To disable the internal horn, turn the switch to Off.



## How to Setup and Operate the Remote Display

### CAUTION: Entering the set-up menus will disable the real-time oxygen readings

After wiring the remote display to your monitor, turn on the power to your monitor. During the warmup, the remote display will illuminate a yellow fault LED and the display will read FLt, (indicating that the monitor is in fault). This will clear after the monitor completes the 4-minute warm-up.



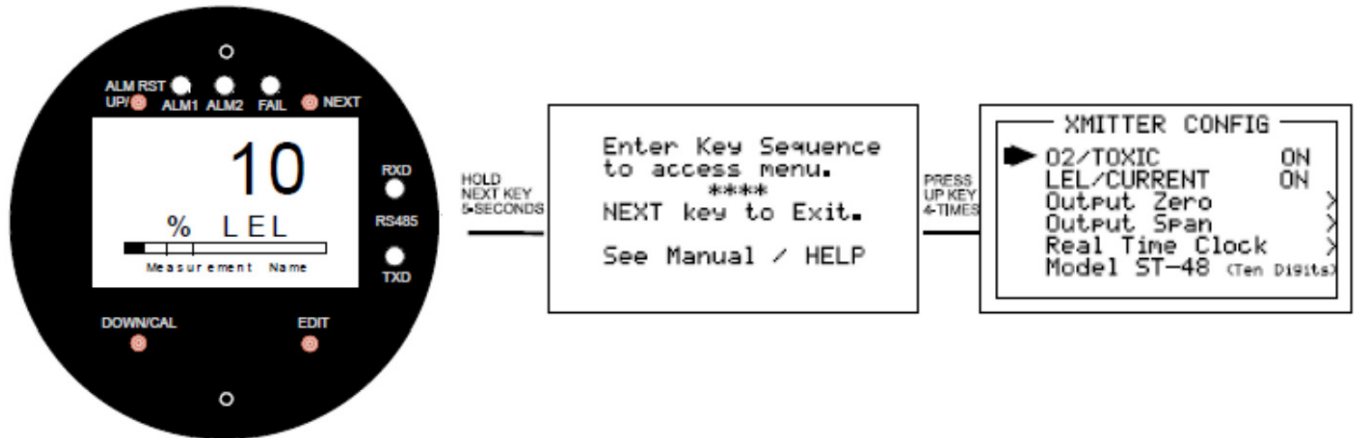
During warm up



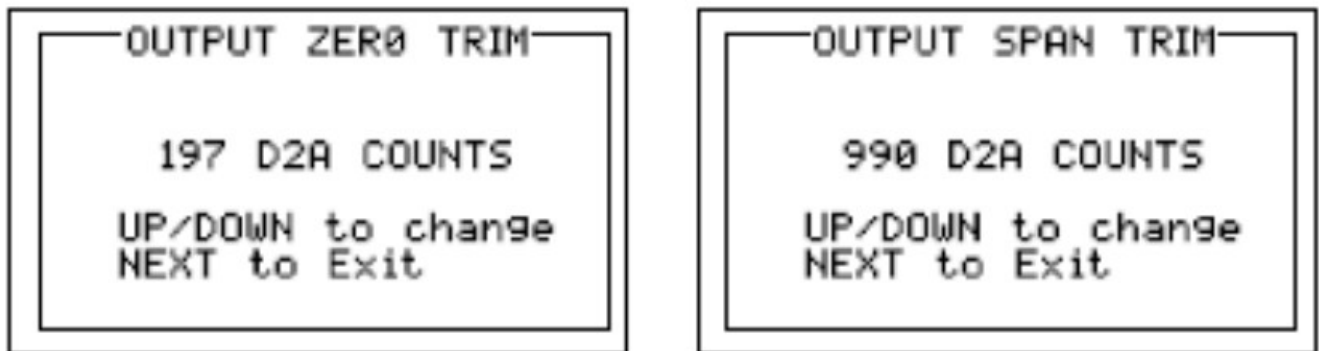
After warm up (fault cleared)

## How to set the zero and full-scale range

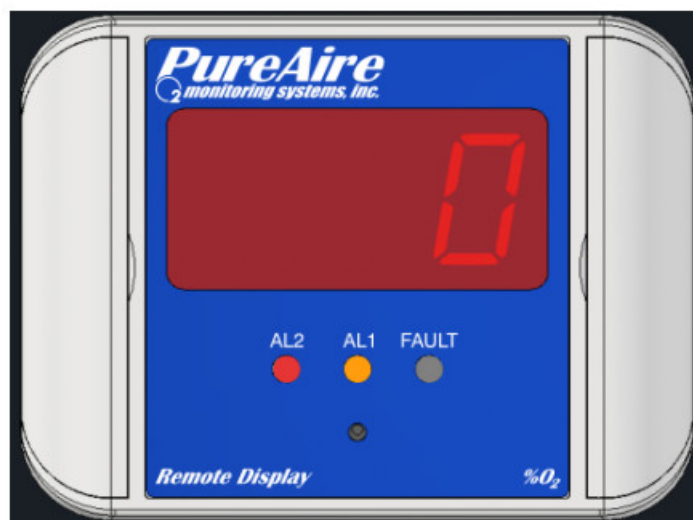
This will need to be set up in the field to adjust to the length of cable between the monitor and the remote display alarm indicator. To perform this in the field, using the wand, first, hold the wand at the NEXT key for five seconds until the screen appears requesting a special key sequence (wand over UP four times) and go to "Output Zero" by wanding DOWN and then wanding EDIT.



Select CHANNEL 2 by wanding DOWN and then EDIT. You will see the first screen below. This sends a 4mA signal to the remote display. On the back of the remote display push the ZERO button for 3 seconds. You'll see the display reset and automatically adjust itself to the new zero. If necessary, you can wander over UP/DOWN to fine-tune the zero reading. NOTE: Both AL1 and AL2 LEDs will be illuminated. To exit the Zero menu, wand over NEXT.



Wand DOWN to "Output Span" and then EDIT. This sends a 20mA signal to the remote display. On the back of the remote display push the SPAN button for 3 seconds. You'll see the display reset and automatically adjust itself to the new span. If necessary you can wand UP/DOWN to fine-tune the full-scale reading. When done, wand NEXT, and the monitor will reboot.





**CAUTION:** If the monitor is in the measuring mode and the ZERO push button is pressed “Err” will be displayed on the remote display and no readings will be recorded. If the SPAN button is pressed in the measuring mode, the remote display will automatically adjust to 100%. You will need to repeat the above adjustment procedure again for the remote display to mirror the monitor. NEVER PUSH THE SPAN button in the measuring mode.

#### How to set the internal alarms on the Remote Display

The Remote Display has two user-selectable alarms with a separate horn tone to identify Alarm 1 from Alarm 2. Both alarms, unless specified otherwise, are preset at the factory as LEL 0-100%: AL1 = 20% and AL2 = 40% \*Please note that alarm levels can be changed in the field. To set Alarm 1, Press Alarm 1 for two seconds to enter the alarm change mode. The display will show the current alarm setting and the right-most decimal point will be lit. Use the UP or DOWN buttons to increase or decrease the alarm value. When done, push the Alarm 1 button for 2 seconds to get back to the monitoring mode. To set Alarm 2, Press the Alarm 2 button for two seconds to enter the alarm change mode. The display will show the current alarm setting and the left-most decimal point will be lit. Use the UP or DOWN buttons to increase or decrease the alarm value. hen done, push the Alarm 2 button for 2 seconds to get back to the monitoring mode.



**PureAire Monitoring Systems, Inc.**

**1140 Ensell Road**

**Lake Zurich, Illinois 60047**


**Phone: 847-726-6000**

**Fax: 847-726-6051**

**Toll-Free: 888-788-8050**

**[www.pureairemonitoring.com](http://www.pureairemonitoring.com)**

#### Documents / Resources

	<p><b><a href="#">PureAire 99185 Remote Digital Display Alarm Indicator</a> [pdf] Instruction Manual</b>  99185 Remote Digital Display Alarm Indicator, 99185, Remote Digital Display Alarm Indicator</p>
---	---

#### References

- [\*\*\*P\* PureAir Monitoring Systems Oxygen Monitors and Toxic Gas Detectors\*\*](#)
- [\*\*\*P\* PureAir Monitoring Systems Oxygen Monitors and Toxic Gas Detectors\*\*](#)

Manuals+.