

## INTRODUCTION

This document contains information about configuring CDT2000 carbon dioxide transmitter with a touchscreen user interface. Before reading this guide, check that the transmitter has been installed according to the installation instructions.

This document describes the menu structures of the transmitter and all the settings that can be adjusted in the menus. Plenty of screen shots and descriptions make the use of the transmitter simple and easy just by following this guide.

## NAVIGATING THE MENU

**Press and hold the screen for three seconds to enter the setup menu.**

Note that if the locking jumper has been installed, nothing will happen on the display. See more instructions about the locking jumper in the installation instructions.



There are four ways to navigate the menu structures:



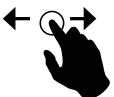
Go back to previous menu without changes



Accept changes and return to the previous menu



Slide your finger up/down to navigate between the modes



Slide your finger left/right to navigate between the parameters

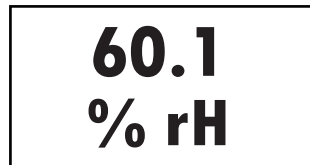
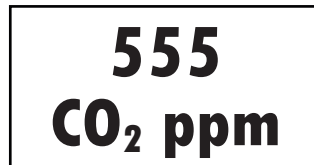
## STEP 1: MEASURING MODES

There are 13 different presentations that can be set for the screen display (see Figure 1). All values can be displayed individually or with different combinations or with trend diagrams. The CO<sub>2</sub> level can also be displayed with a smiley for easy indication of the air quality. One can choose all or just a few measuring modes and display them sequentially on the screen.

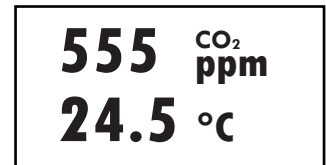
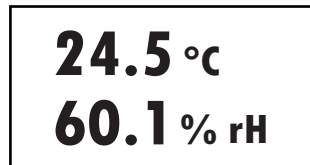
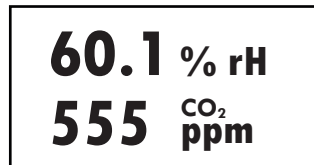
Figure 1 - Measuring modes

### Example

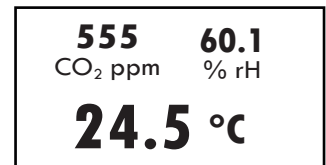
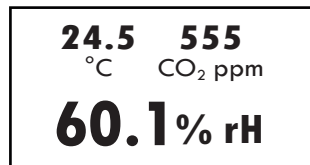
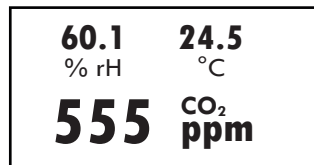
One reading



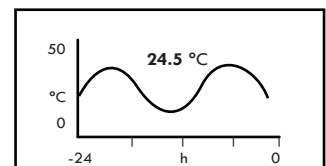
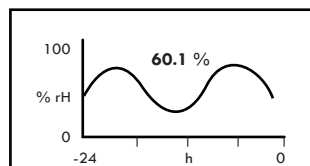
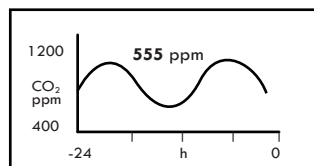
Two readings  
at the same time



All readings  
at the same time



Trend diagram



Smileys



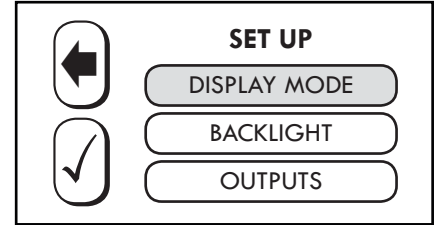
## STEP 2: DISPLAY MODE

Press and hold the screen for three seconds to enter the setup menu.



The setup menu will appear on the screen (see Figure 2). Note that if the locking jumper has been installed, nothing will happen on the display. See more instructions about the locking jumper in the installation instructions.

Figure 2



Press DISPLAY MODE. INFO view opens instructing how to navigate between the modes. Press the screen to close the INFO view right away. READING view will appear on the screen. Slide your finger left/right or up/down to navigate between the views (see Figure 3). Select the desired view and press  accept button to accept the view.

Figure 3 - Display mode

One reading			
Two readings at the same time			
All readings at the same time			
Trend diagram			
Smileys			
Auto-change mode			

← → = Scale time range

← → = Set interval

**STEP 2: DISPLAY MODE CONTINUED**

If you want different views to be displayed sequentially, check the box on the top-right corner of the view to add it (see Figure 4).

Figure 4



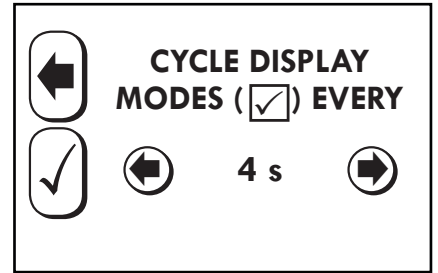
Check/uncheck upper-right box to include or exclude.

- = Included in the Auto-change Mode.
- = Excluded from the Auto-change Mode.

Note: Functions ONLY when Auto-change Mode is the selected Display Mode.

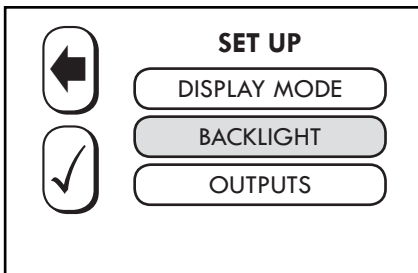
The auto-change mode (Figure 5) has to be selected in Display Mode menu to activate the sequential view. To activate auto-change mode, adjust the time between views, then press , accept button, to make changes or go back to the previous menu without changes by pressing .

Figure 5



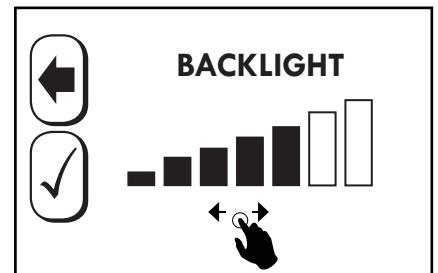
**STEP 3: BACKLIGHT LEVEL**

Figure 6



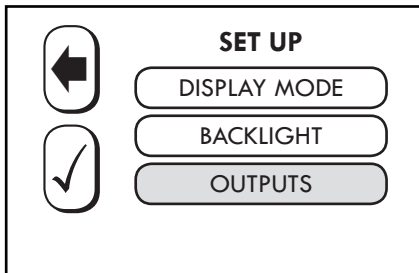
In the SET UP menu choose BACKLIGHT. Slide your finger left/right and select the suitable backlight brightness. Press  to accept the changes or go back to the previous menu without changes by pressing .

Figure 6b



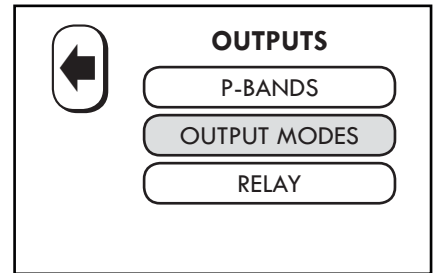
**STEP 4: OUTPUTS**

Figure 7



In the SET UP menu choose OUTPUTS. Select P-BANDS to adjust the measurement ranges. Select OUTPUT MODES to choose between different output options. Select RELAY to configure a relay output. Selection is only available if a relay is installed.

Figure 7b



**STEP 5: P-BANDS**

Press the desired parameter to adjust the output range. Pressing the screen will close the INFO view right away. If the screen is not pressed the INFO view will close after a few seconds.



Press HIGH LIMIT or LOW LIMIT to set the limits for the output (See Picture 8). Press  to accept changes or press  to return to the previous menu without making changes. To change selection between current and voltage outputs see the installation instructions.

Figure 8b

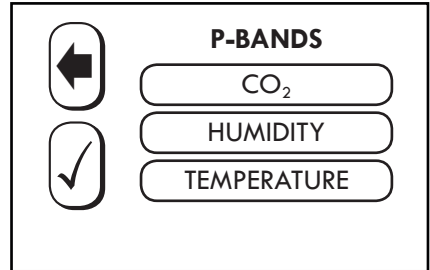
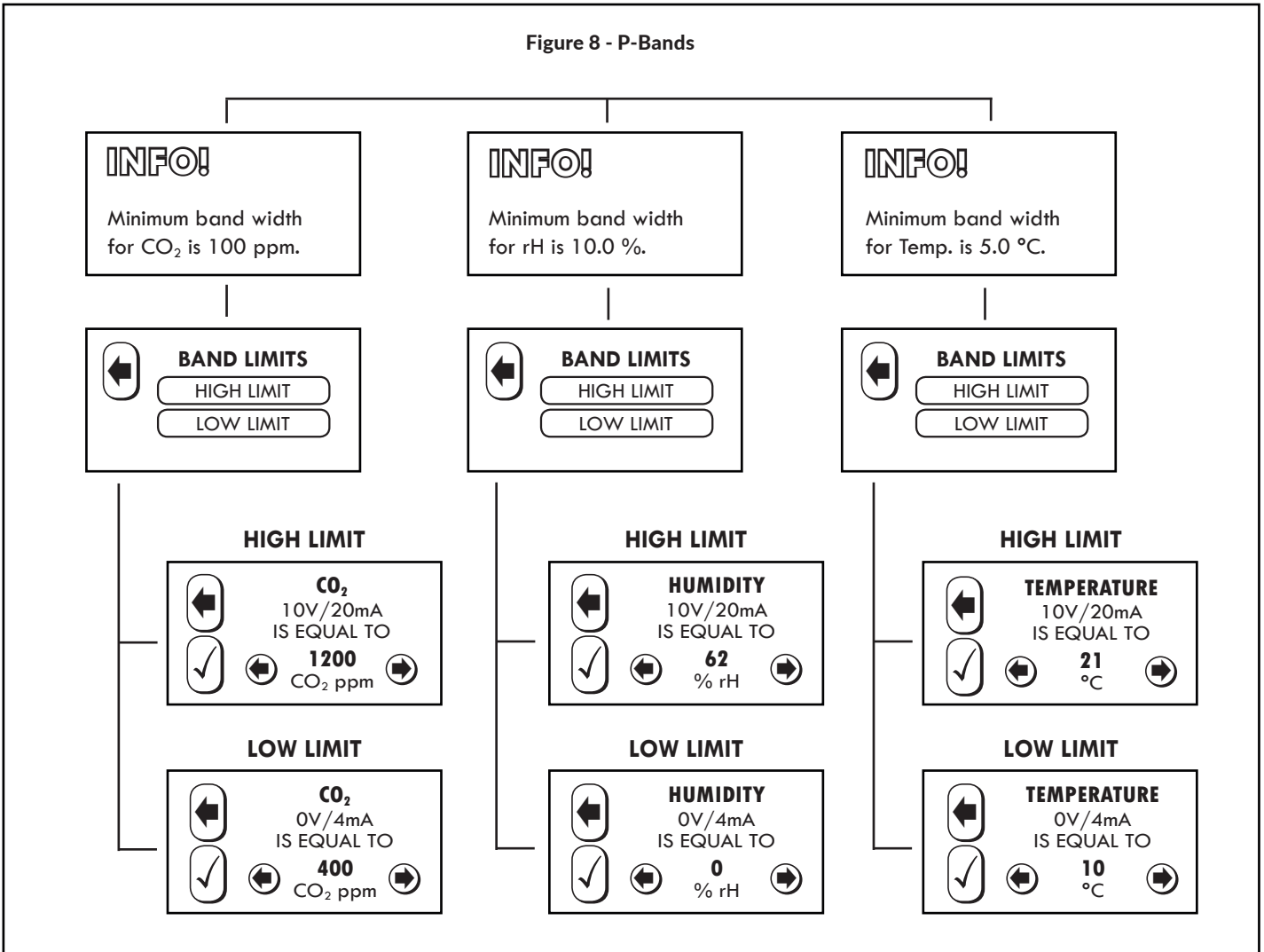


Figure 8 - P-Bands



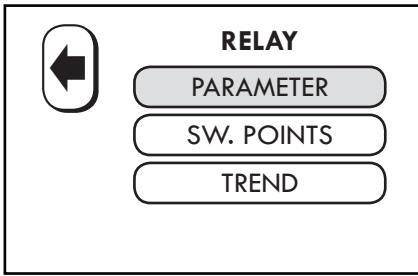
**STEP 6: OUTPUT MODES**

Select MAX VALUE OUT to enable comparison between CO<sub>2</sub> and temperature values. The one that is higher will be output from the humidity terminal. This setting will thus disable the normal humidity output!

Select 0/2-10 V to choose between 0-10 V voltage output and 2-10 V voltage output.

**STEP 7: OPTIONAL RELAY**

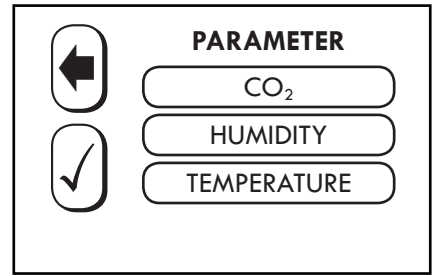
Figure 9



**Menu is only available if a relay is installed.**  
Press PARAMETER to select the desired parameter.

Select the desired PARAMETER and press to accept the changes or return to the previous menu without changes by pressing .

Figure 10



Press SW. POINTS to set the relay's switching points. Set RELAY ON and RELAY OFF points and press to accept changes or return to the previous menu without changes by pressing .

Figure 11

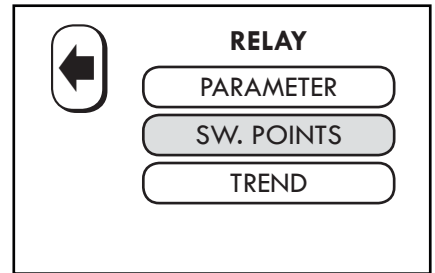


Figure 12 - SW. points

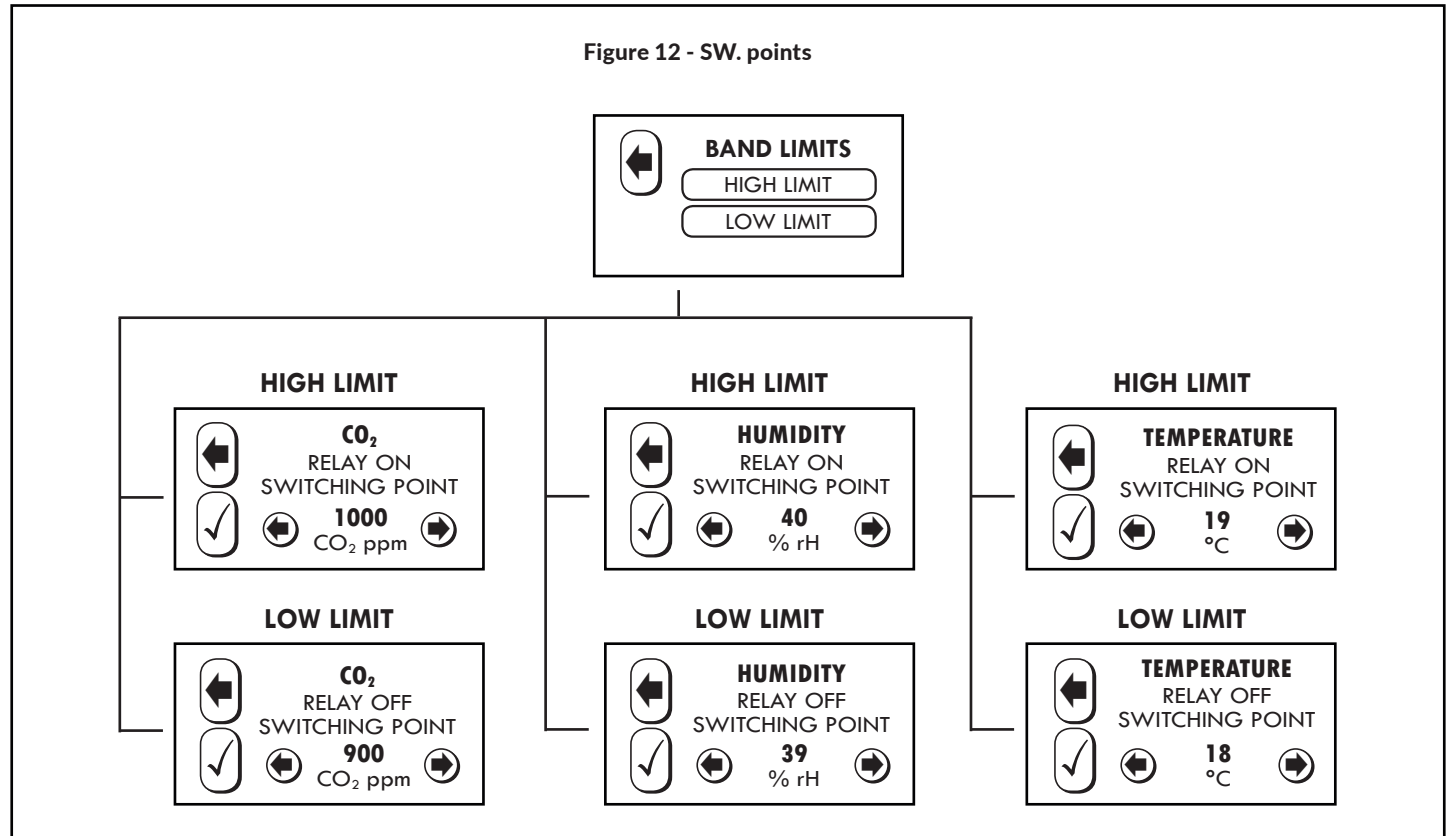
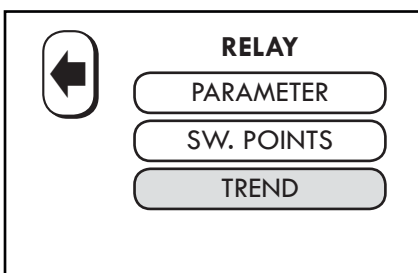


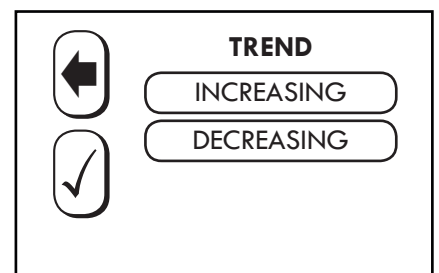
Figure 13



Press TREND to set the switching trend of the relay.

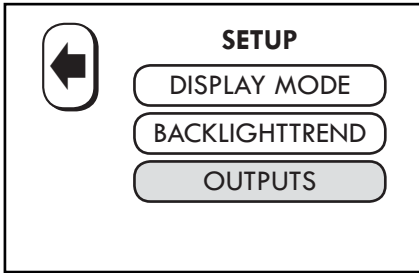
Select INCREASING or DECREASING and press to accept changes or return to the previous menu without changes by pressing .

Figure 14



**STEP 8: OPTIONAL MODBUS**

Figure 15

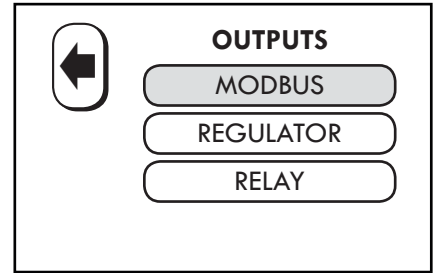


Menu is only available if MODBUS is supported.

Press OUTPUTS.

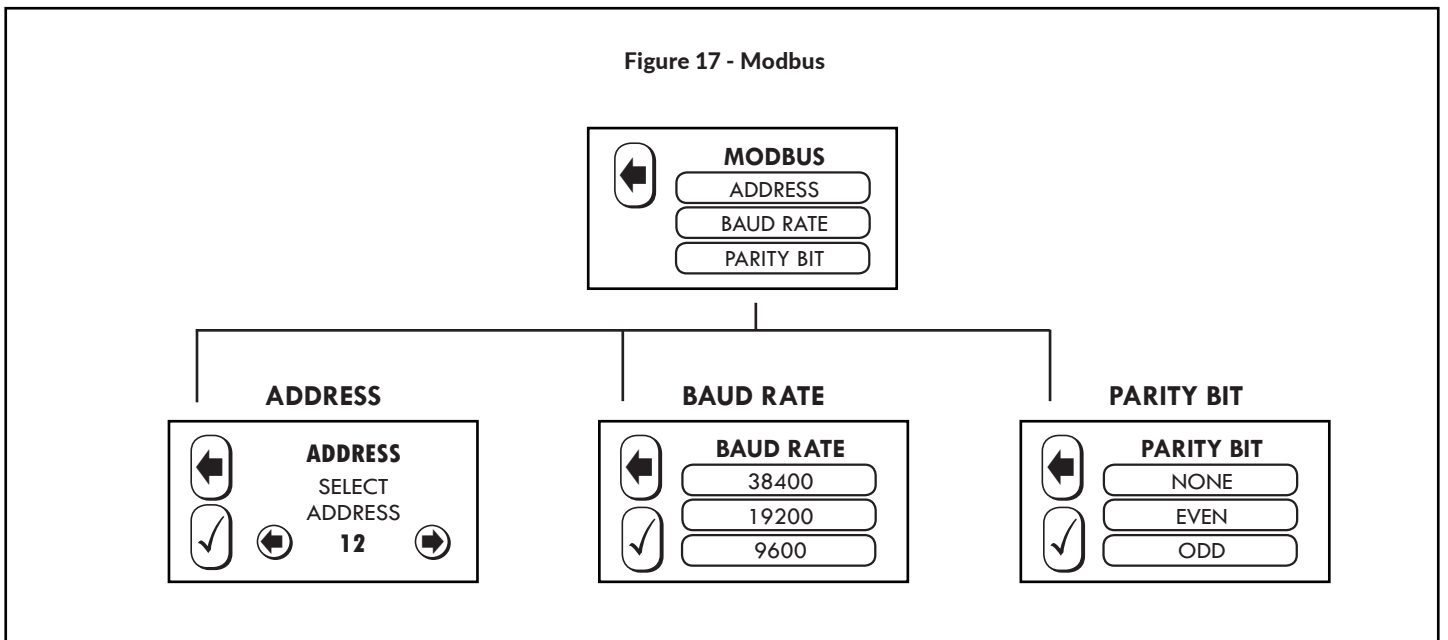
Press MODBUS.

Figure 16



Set ADDRESS, BAUD RATE and PARITY BIT and press to accept changes or return to the previous menu without changes by pressing .

Figure 17 - Modbus



Press REGULATOR to set the PARAMETER and P-BAND values.

Select the desired PARAMETER and press to accept changes or return to the previous menu without changes by pressing . Press P-BAND to set LOW and HIGH limits.

Figure 18

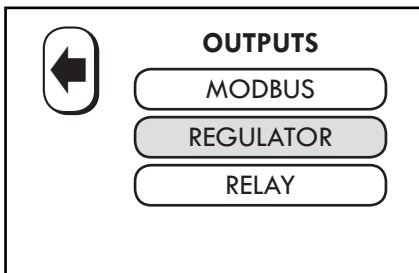
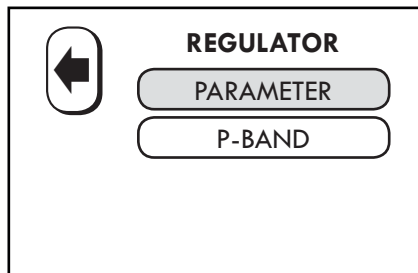


Figure 19



See Figure 8 for setting the P-Band.

Figure 20

