RL-101U User Manual

➢ Powering ON/OFF and selecting Gas: To power on sensor head click the **Test** button until you see it show "Adr" on the display. Once you see "Adr" you will click the **menu** button 3 times and it should show "OFF" or a type of gas(H2S/LEL/CO/SO2). Once you see one of those options click the **UP** button until you see the correct choice for what you will be using. You will do these same steps to turn it off or select a different type of gas if needed.

Revision Menu walk through by hitting the menu button after each mode.

1. "RE/A24" – This is the Revision mode of the menu, it just tells you which revision it is. This one is Revision A24. To get to this mode you will hit the Test button till you see "RE/A24" should only take 1 or 2 clicks.

2. "REL/000" – This is the Relay mode. In this mode you will hit the up and down button to simulate gas ppm reading to set the monitor off to make sure they are communicating. This is one of the best troubleshooting tools to use for our systems.

3. "rFl/###" – This is the Signal strength mode. It allows you to see a 3 digit number that represents the signal strength from the head to the monitor. It can read from 0-205 0=no signal and 205 = best signal. This is another great troubleshooting tool just make sure not to leave it in this mode as it wears out the batteries and it jams the monitor with constant messages.

4. "RST/LEL – This is the LEL SENSOR RESET mode. It is only available if you have this card in LEL gas mode. This allows you to reset/zero the LEL sensor if it has a gas value higher than 1.0 when turning on or calibrating and it should be showing 0. When in this mode you will hit the UP button and you will see it show "1 then it will show c3. Once you see c3 you can hit the menu button until your in normal mode. (this is the best way to zero out the LEL sensor)

5. "dFt/rLd" – This is the Default reload mode. Its to reset the head back to factory settings. This mode is most useful when using an LEL and you need to reset the sensor. When you use this mode it will set the card to default settings which will change the default gas type to LEL.

6. "(gastype*/Cal Limit*) - For example "H2S/025" this indicates the head is set for H2S and the Cal limit is set to 25ppm. So when you go to give it Cal gas it should be 25ppm.

7. "HrS/###" – This is the Hours mode. It shows how many active hours it has from the last battery change. Currently it maxes out at 999 hours.

8. "000" – This should be the normal operating mode. In this mode if you hit it with gas it should climb up to the correct ppm and set the monitor off.

9. "null/000" – This is the zero mode. If you have a very small floating value, under 3 ppm this is the mode that you can Re-zero your head by clicking the up or down buttons. (if you cant get this to clear all the way to 0 in LEL mode use the RST/LEL mode).

10. "CAL/000" – This is the Calibration Mode. You will give it Cal Gas in this mode and when it quits climbing higher you will hit the up button and it will set it to what your cal limit is. This mode will not set your monitor off. If you call it up to 25 ppm and exit this mode it will not set the monitor off either.

You will have to wait for it to fall close back to zero before giving it gas again to set the monitor off.

Address menu walk through by hitting the menu button after each mode.

1. "ADR/001" – This is the address mode. It shows you what address your head is set to. You never want multiple heads set to the same address on a single location/monitor. You get to this mode by hitting the test button until you see "ADR" show up.

2. "BRD/007" – This is the Background mode. This displays what the background is set to. we recommend it to stay at 7 for most of our heads. This means that when gas goes above 7ppm it constantly is transmitting that reading to the monitor.

3. "bAt/08.7" – This is the Battery mode. This shows you your current battery voltage for that head.

4. "GASTYPEorOFF*" – For example "H2S" would be displayed. This is the Mode in which you select the gas type(H2S/CO/LEL/SO2) you are using or you can turn it OFF by selecting OFF.

5. "000" – This should be the normal operating mode. In this mode if you hit it with gas it should climb up to the correct ppm and set the monitor off.

6. "null/000" – This is the zero mode. If you have a floating value of 1 or 2 ppm this is the mode that you can Re-zero your head by clicking the up or down buttons.

7. "CAL/000" – This is the Calibration Mode. You will give it Cal Gas in this mode and when it quits climbing higher you will hit the up button and it will set it to what your cal limit is. This mode will not set your monitor off. If you call it up to 25 ppm and exit this mode it will not set the monitor off either.

You will have to wait for it to fall close back to zero before giving it gas again to set the monitor off.