



# Operating Instructions for **LOMAX 2** Pressure Controller

## Introduction to the Lomax 2

The Lomax 2 is Multi Products Company's latest in a large family of controllers. This is the ultimate in a pressure controller for ease of use and in the day to day operation of your wells. This controller is designed to throttle between pressure set points and/or open or close on a high or low pressure set point.

Each function is clearly laid out on the multi colored display and settings are changed by the use of the "control knob" in the center of the face plate .

## FEATURES

The electronics of the Lomax 2 are designed for ease of replacement due to the spring loaded hinges located on the back of the faceplate.

Above the LCD are [Low Set, Actual PSI, and High Set] indicators. These set points or working pressures are displayed on the LCD below the indicators.

Display LCD top line shows the working pressure. This allows the user to see the amount of pressure or PSI on the well or separator. This pressure controller can be operated to open on a low pressure set point and close on a high pressure set point. Valve will be open if the working pressure is between the two set points. (Window mode) If the working pressure is less than the low set point a LO, will appear on the left hand side of the LCD. If the working pressure exceeds the high pressure set point, HI will appear on the right side of the LCD. Valve will shut when low and high pressure set points are reached.

The (HI-LO mode) is designed to either open or close on a low pressure set point and also a high pressure set point, i.e. open on a high pressure set point and close on a low pressure set point. Also open on a low pressure set point and close on a high pressure set point.

Bottom line of LCD shows the valve status or mode., i.e. valve is open, [in (OP) md (O) v], if valve is closed the display will read [in (CL) md (C) v].

## INSTALLATION

There are threaded ports located on the bottom of the Lomax 2 enclosure. These are clearly marked as supply and output. The supply gas must be regulated to 30 to 40 PSI and be a clean supply from the well or separator. To insure the supply gas is clean, a filter is included with each controller. This filter must be used. It is best to tap the casing for this supply and regulate this to the correct pressure. The source line of supply from the well head is attached to the port marked supply. The line from the controller going to the motor valve is output. The pressure sensing line into the transducer is located on the left hand side of the enclosure. The pressure line should be from a dry source so that pressure readings are accurate and damage to the transducer does not occur. This will allow the controller to operate the valve as it is designed.

## OPERATION

The inside of the door of the Lomax 2 contains a set of instructions that provide the operator with the correct procedure to set pressure limits, calibrate, and review histories. Set the desired pressure set points in the controller according to these instructions. The motor valve for gas sales will open or remain closed depending on the working pressure and the desired pressure set points. The display will show (OP) or (CL) depending upon the working pressure or PSI. The valve will stay open or closed unless interrupted by a manual command (open valve or close valve), plunger arrival sensor, switch gauge or other device connected to the controller. This controller is not designed to stay open or closed for a predetermined time. The pressure set points entered by the operator will determine the valve openings or closures.

## To read last 10 valve cycles

Press HISTORY button and hold while turning the dial to the left. The time shown on the screen will be the length of the valve cycle.

## To clear last 10 valve cycles

Press HISTORY button and hold while turning the dial to the right. Screen will show "HOLD" when valve cycles are cleared.

## To check Total Valve Cycles Open Time of Each Cycle and Battery Voltage

Press HISTORY button and hold - information will appear on the screen.

The program contains an auto restart **OPTION** that restarts the controller in the event of an electrical disturbance. Controller will count down from 240 seconds and allow the operator to cancel the restart by simply pressing any key on the faceplate during the countdown. To activate this option, please call the service department at 800-777-8617.

## Module Wiring Connections

These connections are located behind the faceplate of the controller.

<b>Red (batt.)</b>	• Red wire from battery
<b>Blk. (batt.)</b>	• Black wire from battery
<b>Solar (+)</b>	• Red wire from solar panel
<b>Solar (-)</b>	• Black wire from solar panel
<b>B4 (+)</b>	• Power wire (Red) from B-4 sensor
<b>Sens. (red)</b>	• Sensing wire (White from B-4) (Red from Beagle sensor)
<b>Sens. (blk)</b>	• Negative or com wire from sensor (Black)
<b>Aux. In</b>	• Optional device to shut in well.
<b>Open In</b>	• Optional device to open motor valve.
<b>Close In</b>	• Optional device to Close motor valve.
<b>Com</b>	• Optional device common or negative.
<b>Red (val.)</b>	• Red wire from solenoid to open M/V.
<b>Blk. (val.)</b>	• Black wire from solenoid.
<b>Grn. (val.)</b>	• Green wire from solenoid to close M/V

### LIMITED WARRANTY

Multi Products Company products are warranted to be free from defects in material and workmanship for a period of ONE (1) YEAR. Parts will be replaced free of charge for the full warranty period while labor to replace defective parts will only be provided for One Hundred-Eighty (180 days) from the date of receipt. Thereafter, purchaser must pay for the labor involved in repairing the product or replacing the parts at the prevailing rate together with any transportation charges to or from the place where warranty service is provided. This warranty is extended by Multi Products Company, 7188 State Route 39 East, Millersburg, Ohio 44654, to the original purchaser only.

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED WHICH ARE SPECIFICALLY EXCLUDED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO EVENT SHALL MULTI PRODUCTS COMPANY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

In the event of a defect, malfunction or failure to conform to specifications established by seller, or if appropriate, to specifications accepted by seller in writing during the period shown, Multi Products Company, at its option, will either repair or replace the product or refund the purchase price thereof, and such action on the part of Multi Products Company shall be the full extent of Multi Products Company's liability hereunder.

This warranty is void if:

- The product is used in other than its normal and customary manner, including corrosive environments.**
- The product has been subject to misuse, accident, neglect or damage**
- Unauthorized alterations or repairs have been made, or unapproved parts used in the equipment.**

In order to obtain performance of this warranty, purchaser must contact its Multi Products Company sales representative or Multi Products Company at the address above.



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