

Stuck relay(s) in molbox1, molbox1+ or molbox RFM flow terminal

These are molbox1 screenshots that might indicate a stuck relay(s).



Display might also read ACALERR

Most likely a relay is sticking in the molbox. If you do get them to free up sometimes the problem is never seen again and other times it starts happening again very soon and the molbox flow terminal would need to be sent in for repair.

Here are some suggestions that are common to all models of molbox flow terminal

1. Cycle power
2. Go through a SETUP MOLBLOC key sequence: [SETUP] button, then <1molbloc> button.

Here are suggestions specific to molbox1 or molbox1+ (see next page for molbox RFM)

Allow the molbox1 to power up. Depress the "P&T" key twice to show the molbloc temperature screen

1. Enter the diagnostics mode --- This is done by holding the "+/-" and "ESCAPE" keys simultaneously until the screen displays "DIAGNOSTIC MENU".
2. Select 6 disp
3. Select 5 ohms
4. Select 5 relay --- From this screen you may select the PRT1 or PRT2 (A channel molbloc) or PRT3 or PRT4 (B channel molbloc)
5. From this screen you may select normal operation or PRT input. Choose one of the internal resistors
6. Escape
7. Return to the main screen, the display should show the resistance selected measurement of the PRT selected from above.

PRT avg

PRT1 or PRT3

PRT2 or PRT4

(PRT choice depends on the Channel selected)

By depressing the "+/-" and "ESCAPE" keys you may choose another PRT and/or different resistor value (cycle the relays)

=====
Example (follow steps 1 -3):

Select 5 relay --- 2PRT2
Select --- 3R110
Escape

Return to the main screen, the display should show the resistance measurement of the PRT selected from above.

102.998
95.987 110.010

Here are suggestions that are specific to molbox RFM flow terminal (see previous page for molbox1)

1. connect a molbloc and power the unit up.
2. Press and hold the +/-key and the escape key until a series of beeps is heard and release.
3. Select 6 DISP
4. Select 5 OHMS and then press the escape key and record the displayed values.
5. Press the ENTER key (this will allow access to the relay operation)
6. Select 1 UPSTREAM/2 R100 and record the bottom left value.
7. Press the ENTER key, select 1 UPSTREAM/3R110 and record the bottom left value.
8. press the ENTER key, select 2 DOWNSTREAM/2 R100 and record the bottom right value.
9. Press the ENTER key, select 2 DOWNSTREAM/3 R110 and record the bottom right value.
10. Press the ENTER key, select 1 UPSTREAM/ 4 NORM and record the bottom left value(molbloc temperature in ohms)
11. Press the ENTER key, select 2 DOWNSTREAM/ 4 NORM and record the bottom right value.

Send back the data values in the order taken above and we should be able to determine which relay is bad.