



# **TOTALFLOW**

## ***Technical Bulletin127***

### **Testing the stream pressure on a BTU 8000**

## **Totalflow Technical Bulletin**

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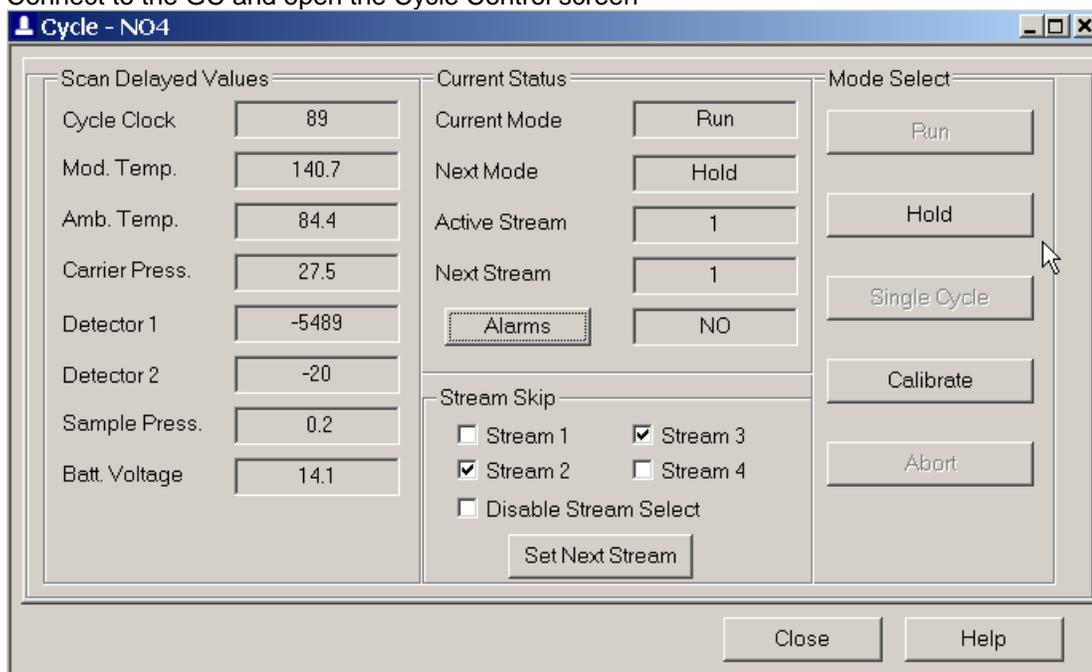
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## Purpose

The BTU 8000 will be more repeatable and un-normalized totals between sample streams will be more consistent when the sample pressures on all of the incoming streams are matched. These pressures should be around 15psig when no gas is flowing through the sample loops. The following procedure will show how to test that the pressures from each of the stream are balanced.

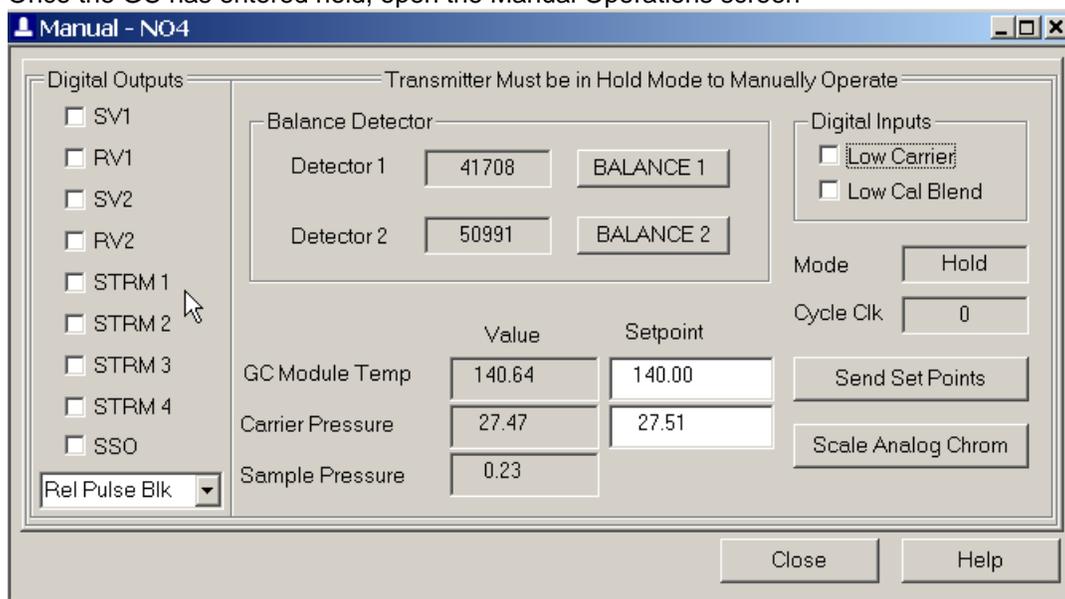
## Description

1. Connect to the GC and open the Cycle Control screen

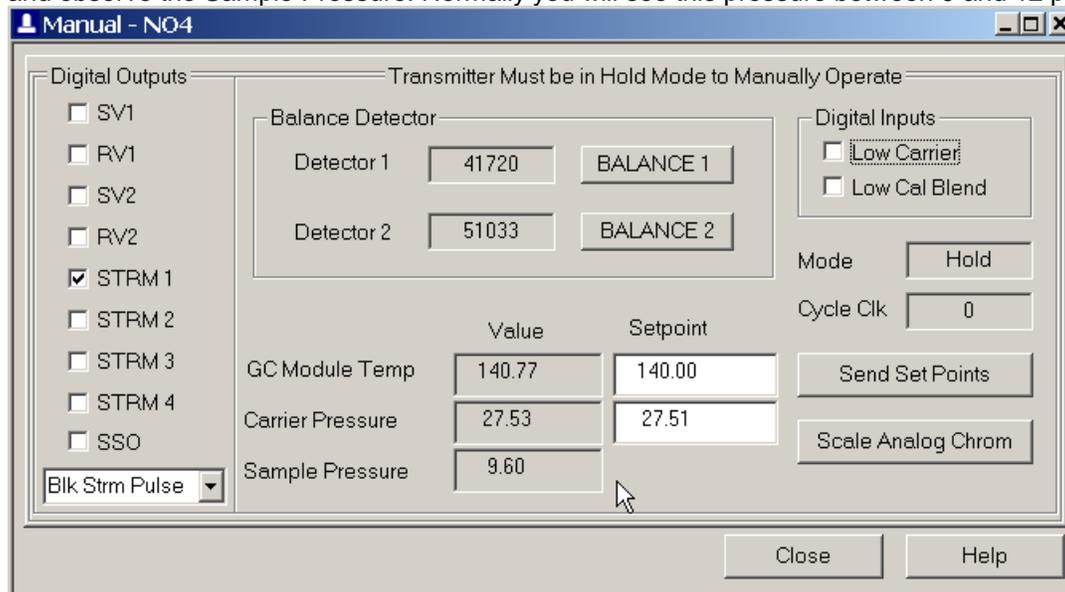


2. Place the GC in Hold mode

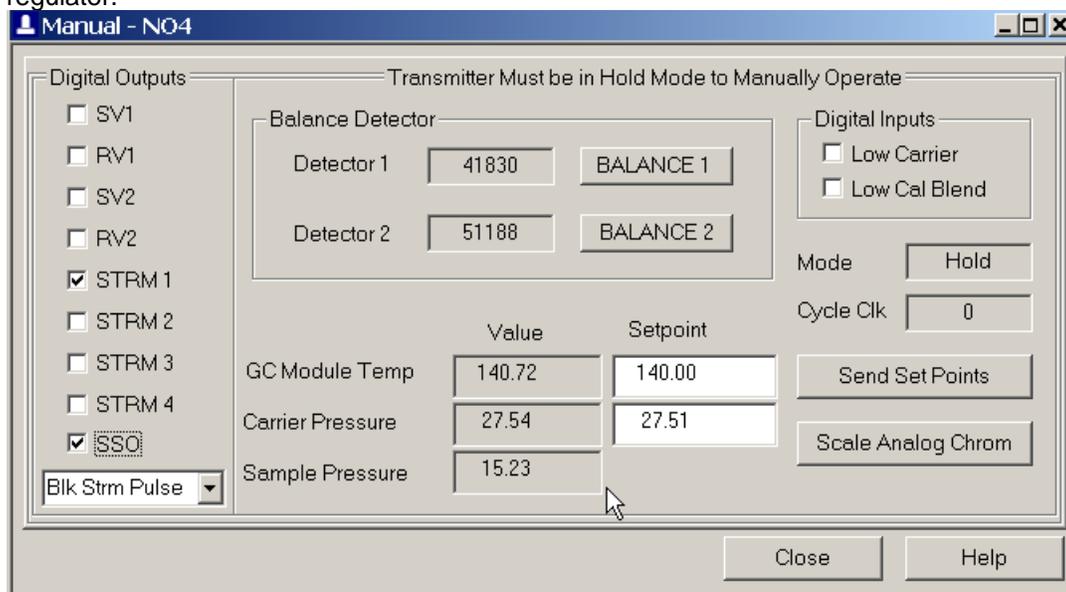
- Once the GC has entered hold, open the Manual Operations screen



- To test a streams flowing pressure, check digital output that controls the Stream. (i.e Stream 1) and observe the Sample Pressure. Normally you will see this pressure between 9 and 12 psig.



- To test a streams' blocked in pressure; with the stream turned on, select the SSO check box. You will observe that the stream pressure will jump up. This is the pressure that should be set to about 15psig. Adjust this pressure at the sample probe/regulator or at the calibration gas bottle regulator.



- Repeat this procedure for each stream that you have connected to the GC including the calibration stream.
- When finished, uncheck any checked digital outputs and place the GC back into run mode.
- Remember that sample streams that go through a sample conditioning system will show higher pressures at the regulator than in the Manual screen of the MMI software. Calibration bottle regulators should show similar pressures to those you observe on the MMI Manual operations screen.

## Conclusion

Manipulating the stream solenoids and the sample shut off solenoid can help you balance pressures between streams. This method can also help you determine if you have a bad regulator in your sample probe or calibration gas bottle. Compare your regulator pressure to the Sample Pressure shown on the Manual Operations screen.

Also see Technical bulletin 128 for information on using these tests to determine if you have sufficient sample flow for proper operation.