

Using An External CO₂ Source with TARGAS-1

Some experiments require the need to connect directly to an external CO₂ source for more precise, steady control of the reference gas. The TARGAS-1 offers a very simple solution for doing just that and it does not require the need to purchase additional hardware.



- Using a known, accurate CO₂ mixture, and a low pressure regulator, connect to the **Air In** gas port on the TARGAS-1 console as shown below with a T-piece and vent pipe to avoid overpressure.
- From the **Main Menu**, set the flow rate on the CO₂ regulator to a rate to 250 cc min.
- Set the TARGAS-1 to **PLC5 Mode**.
- Set **CO₂r** to 100% of ambient.
- Set **H₂O_r** to 100% of ambient.



Check the vent pipe to ensure that you have excess flow out of it (a flow meter is handy to have here). Also make sure that the link pipe is in place connecting the **GAS IN** and **REF OUT**.



Please Note: A reduction in CO₂ concentration will result in an increase of H₂O concentration.



If you would like to learn more about this application or speak with one of our experienced technical staff, please feel free to get in direct contact with us via any of the contact information listed below:

110 Haverhill Road, Suite 301
Amesbury, MA 01913 U.S.A.

Tel: +1 978-834-0505
Fax: +1 978-834-0545

support@ppsystems.com
ppsystems.com



04.19