SNAP DVCUP Cheat Sheet V1.6.C

Sensor and Valve Controls:

Sensors:

With Only Internal Sensor:
VAC1? ..... Get vacuum reading of sensor 1 (internal sensor)
With Optional External Sensor:
VAC1? ..... Get vacuum reading of external sensor
VAC2? ..... Get vacuum reading of internal sensor

Control Valves:

REINIT! ..... Reinitialize valves.
SP1S=1 ..... Set the setpoint.

PID Tuner For Valve:
P1=0.8 ..... Set the Proportional variable
I1=1 ..... Set the Integral variable
D1=3 ..... Set the Derivative variable

Commands to Control Valve:
Status? ..... Get current valve mode for Dinamo valve.*
* Response will be "Setpoint","Vent","Full Vac", or "Close"

SP! ..... Set Valve to Setpoint mode
Vent! ..... Set Valve to Vent mode
Full! ..... Set Valve to Full Vac mode
Close! ..... Set Valve to Closed mode

External Valve
VD=5 ..... Set the vacuum differential to 5 units
VDW=10 ..... Set the vacuum differential time to 10 seconds

Units and Data Mode:

Units:

U? ..... Get the current units.*
*Response will be "U=0", "U=1" or "U=2". 0 = Torr, 1 = mBar, 2 = kPa, 3 = mTorr
U = 0 ..... Set the units as Torr
U = 1 ..... Set the units as mBar
U = 2 ..... Set the units as kPa
U = 3 ..... Set the units as mTorr

Mode:

Query Current Mode:
M? ..... Get the current mode for DVCUP*

*The mode can either be Automatic, in which data is sent at the specified T rate, or Manual, in which data is only sent when queried.

Set Current Mode:
M = A ..... Data will be sent automatically at the specified T
M = M ..... Data will only be sent when queried

V? ..... The device will respond with the version info

For user applications, it is often recommended to set the mode to manual (M) and query the data as necessary.

Timing:

T? ..... Get the current data rate for DVCUP
T = 0.25 ..... Data will be sent 4 times per second
T = 1 ..... Data will be sent 1 time per second