

SNAP DVCUP CHEAT SHEET V1.7.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.

SPS1=1 Set the setpoint to 1.

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 Internal Valves:

Status? Get current valve mode for internal valve.*

* **Response is "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

VE1=0/1 Enable/Disable External Valve 1

VF1=P/V Set External Valve 1 to Pumpdown (P) or Vent (V)

VD1=5 Set the vacuum differential to 5 units

VDW1=10 Set the vacuum differential time to 10 seconds

UNITS AND DATA MODE:

Units:

U? Get the current units.*

***Response is "U=0", "U=1", "U=2",or "U=3" | 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

M = H Auto string will change to [vacuum value] [setpoint]

M = S Standard auto string "Vac1=..."

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 = 1 Data will be sent 1 time per second, minimum: 0.01