

SNAP DVCUP CHEAT SHEET V1.4.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:

SPS1? Get the setpoint and current reading

SP1S=1 Set the setpoint. Responds with current reading
..... and setpoint

PID Tuner For Valve:

P1? Get the Proportional variable

P1=0.8 Set the Proportional variable

I1? Get the Integral variable

I1=1 Set the Integral variable

D1? Get the Derivative 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 Dinamo Valve to Setpoint mode

Vent! Set Dinamo Valve to Vent mode

Full! Set Dinamo Valve to Full Vac mode

Close! Set Dinamo Valve to Closed mode

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

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