

SNAP DVCUP CHEAT SHEET V1.1.C

SENSOR AND VALVE CONTROLS:

Sensors:

Query Vacuum Level:

VAC1? Get vacuum reading of sensor 1

Control Valves:

Query Setpoint:

SPS1? Get the setpoint for SNAP valve

Setting Setpoint:

SP1S=1 Set the setpoint for the SNAP

PID Tuner For Valve:

P? Get the Proportional variable

P=0.8 Set the Proportional variable

I? Get the Integral variable

I=1 Set the Integral variable

D? Get the Derivative variable

D=3 Set the Derivative variable

Timing:

Query Data Rate:

T? Get the current data rate for DVCUP

Set Data Rate:

T = 0.25 Data will be sent 4 times per second

T = 1 Data will be sent 1 time per second

UNITS AND DATA MODE:

Units:

Query Units:

U? Get the current units.*

*Response will be "U=0", "U=1" or "U=2". 0 = Torr, 1 = mBar, 2 = kPa, 3 = mTorr

Set Units:

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.