

## SPREADSHEET TABLE OF MAJORITY OF SDI-12 COMMANDS

AC-421 SDI-12 Command Quick Reference		
SDI-12 Command (a = sensor address)	What sensor does	SDI-12 Return*
?	Queries sensor addresses	Returns current address for sensors on the data line Ex: ?! → 0
a	Confirm communication	Returns current sensor address EX: 0! → 0
al	Returns sensor information (e.g., sensor model, serial number, firmware version, etc.)	Varies, please consult your sensor's manual** EX: 0! → 013Apogee SI-4210.62210
aV	Displays internal saved data (e.g., calibration coefficients, offsets, etc.)	Varies, please consult your sensor's manual** EX: 0V! → 00007 0D0! → 0+1.72402r+09+1.01104e+07+82608.4 0D1! → 0-2.92505e+06+23518-29598+6.2210
aAx	Change sensor address to a new value (x = 1-9 or A-Z)	Sensor will return the value of the new address EX: 0A1! → 1
aM, aM1, aM2 ...	Used to take a measurement	Varies, please consult your sensor's manual** EX: 0M! → 00011 0M! → 0 0D0! → 0+28.04520
aMC, aMC1, aMC2 ...	Used to take a measurement. Data is returned with a check character	Varies, please consult your sensor's manual** EX: 0MC! → 00011 0M! → 0 0D0! → 0+28.23737BXE
aC, aC1, aC2	Used to take a measurement when more than one sensor is used on the same data line	Varies, please consult your sensor's manual** EX: 0C! → 000101 0D0! → 0+28.00574
aCC, aCC1, aCC2	Used to take a measurement when more than one sensor is used on the same data line. Data is returned with a check character	Varies, please consult your sensor's manual** EX: 0CC! → 000101 0D0! → 0+28.19998lee
aD0, aD1, aD2 ... ***	Used to return recorded measurements from the M!, C!, or CC! commands	Varies, please consult your sensor's manual** See above examples
*Example command outputs taken using an Apogee SI-421-SS IR sensor		
**Sensor manuals can be found online at: <a href="https://www.apogeeinstruments.com/product-manuals/">https://www.apogeeinstruments.com/product-manuals/</a>		
***AC-421 automatically does display command with any measurement command		