

## Programming: Report To Host Commands

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Ra ... Rzzz	Report variable value a ... zzz, 78 in all
Rab[i]	Report 8 bit variable value Rab[i]
Raw[i]	Report 16 bit variable value Raw[i]
Ral[i]	Report 32 bit variable value Ral[i]
RA	Report buffered acceleration
RAIN{port}{ch}	Report 8 bit analog input where port=A-H, ch= 1-4
RAMPS	Report assigned max. current
RBa	Report overcurrent status bit
RBb	Report parity error status bit
RBc	Report communications error bit
RBd	Report user math overflow status bit
RBe	Report position error status bit
RBf	Report comm framing error status bit
RBk	Report EEPROM read/write status bit
RBl	Report historical left limit status bit
RBi	Report index status bit
RBh	Report overheat status bit
RBm	Report negative limit status bit
RBo	Report motor off status bit
RBp	Report positive limit status bit
RB r	Report historical right limit status bit
RBs	Report program scan status bit
RBt	Report trajectory status bit
RBu	Report user array index status bit
RBw	Report wrap around status bit
RBx	Report hardware index input level
RCHN	Report combined comm status bits
RCHN0	Report RS232 comm status bits
RCHN1	Report RS485 comm status bits
RCLK	Report clock value
RCTR	Report secondary counter
RCS	Report RS232 comm check sum
RCS1	Report RS485 comm check sum
RD	Report buffered move distance value
RDIN{port}{ch}	Report 8 bit digital input byte, where port=A-H, and ch=0-63
RE	Report buffered max. pos. error
RI	Report last stored index position
RKA	Report buffered Kaff coefficient
RKD	Report buffered Kd coefficient
RKG	Report buffered Kg coefficient
RKI	Report buffered Ki coefficient
RKL	Report buffered Kl limit value
RKP	Report buffered Kp coefficient
RKS	Report buffered Ks coefficient
RKV	Report buffered Kvff coefficient
RP	Report measured position
RPE	Report present position error
RMODE	Report present positioning mode. The possible responses are

Absolute position move  
Relative position move  
Velocity move  
Torque mode  
Follow mode  
Step & Direction mode  
Cam Table mode  
Drive mode  
Follow mode with multiplier  
Position error  
Motor off

RS Report status byte (8 system states)  
RSP Report sample period & version #  
RT Report current requested torque  
RV Report velocity  
RW Report status word (16 system states)