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**BULLETIN  
BUL-007**

## Auxiliary Functions Interface Control Documentation

The aux functions protocol covers the binary state of a series of relays used to control various discrete functions of the Pronto4. All of the functions are considered optional and are usually included based upon requirements.

### Packet Structure: [ACCS]

[ open comms  
A Address on a multidrop network.  
This program (with inputs) is address 0.  
Programs controlling only the outputs are addresses 1 and above.  
CC Two-character command (see below)  
S One-character, 8-bit checksum  
] Close comms

### Command Index:

IN (Input) Return a number from 0-15 indicating the status of the inputs.  
C# (Input) C1 sets onchange to 1, C0 sets onchange to 0 (reports input status when one changes).  
L# (Output) Turns off an output. # is a predefined letter, or a number 1-8.  
H# (Output) Turns on an output. # is a predefined letter, or a number 1-8.  
TS (Output) Blinks the LED twice for 100ms.

8-output aux function boards only have the L#, H#, and TS commands.

The 8-bit checksum is computed by adding up the address character and the two command characters, and then comparing the result to the checksum character.

For reference, the packet [0H4-] is valid (checksum is ASCII 172).