Dawn Simulator Command/Response Set

1. Command Set.

    a. Command Structure-3 bytes:

    @XY   (3 characters must be sent)

    Where:

    > @=Command Prefix. *Python note: Sent as the '@' character.*
    > X=Command Character. *Python note: Sent as a character.*
    > Y=Light Level to set (byte value). Used only by "L" command,
    >   but must be sent for all other commands (value irrelevant).
    >   *Python note: Sent as chr(value).*

    b. Command Characters (Upper-case only):

    i.   R. Master Reset. Reboots Dawn Simulator processor. Light Level is ignored.
    ii. A. Attention. Requests a response from the Dawn Simulator, but no specific action. Useful to determine if Dawn Simulator is active and to check for cancel conditions. Light Level is ignored.
    iii. C. Clear Cancel. Clears "cancelled" status set by pressing the Override Button on the Dawn Simulator. Useful to clear Cancel Acknowlegements. Light Level is ignored.
    iv. M. Return MaxLevel Value. Queries the maximum Light Level value the dawn simulator can process (as defined by Dawn Simulator software), but invokes no specific action. Light Level is ignored.
    v.   F. Off. Set brightness to zero, extinguishing light. Light Level is ignored.
    vi. N. On. Set brightness set to MaxLevel, turning on light at full brightness. Light Level is ignored.
    vii. L. Set light level. Set Brightness to Light Level.

2. Response Set.

    a. Response Structure (3 bytes):

        ABC (3 characters must be sent)

        Where:

            A=Acknowledgement Status
            B=Command Character being acknowledged--the Command
               Character sent with the most recent command (Upper-case
               only)
            C=Current Light Level (byte value) for all commands except the
               "M" command, for which the MaxLevel (byte value) value is
               returned.

    b. Acknowledgement Status Characters:

        i. !. Positive Acknowledgement. Command received and understood.
        ii. ?. Negative Acknowledgement. Command invalid or not understood.
        iii. #. Cancel Acknowledgement. User cancelled dawn sequence by
               pressing the Override Button. Any further A, M, F, N, or L
               commands will be answered with a Cancel Acknowledgement
               until a C or R command is received.