

Reading RS485 Network ASCII data from within a WinEVM Schedule

Starting with Version 3.08.1 of WinEVM and Stargate/CommStar Firmware has added the ability to receive and parse data on the Controller's RS485 network from within a WinEVM created schedule.

The following example is to query a RCS RS485 thermostat and then parse the return data you want from the string into a user variable. Parsing is specified by the character position of the data in the return ASCII string.

Example: Reading RCS Thermostat Type 2 Return Status Data on the RS485 Network.

The following WinEVM Schedule example allows you to test the fan relay state that is returned by the Thermostats response to the R=2 Request Status Command.

```
EVENT:
If Always
  (F:Test) is SET
Then
  ASCII-Out:'A=1 R=2' [RS-485]
  Put value of received char # 43 into user_VAR [RS-485]
  (V:Fan State) load with user_VAR
  Delay 00:01:00
End
```

When the thermostat at address 1 is queried with a type 2 status request, (A=1 R=2), it will return a string of status information. In the example, the Fan state is desired. It is in the R=2 response string at character # 43. The value of bit 43 is read and put into user_Var, then loaded into a variable V:Fan State. Once in a user variable, you can test the variable for fan state.

The delay sets the read period. Note that the RS485 bus will slow down a bit every time you make the test, so you don't want to test for it too often.