Modbus RTU Slave application AFD-J890A

SERIAL DATA SETUP:
Modicon RTU interface
8 Data bits, No parity, 1 Stop bit
Z-Card is Modbus RTU Slave
Talks to Modbus Slave Address 4
Press Reset switch on Z-Card
after changing DIP-switches
settings to activate changes.

Each interface can drive up to 640 LEDs. Regardless of the RTU slave address, the LEDs are controlled by
the following registers:

LED 0 Comm Fail LED - see below.
LED 1 controlled by register 41001
LED 2 controlled by register 41002

LED 398 controlled by register 41398
LED 399 controlled by register 41399

A non-zero value in a register turns the associated LED on. A zero value in a register turns the associated
LED off. The Z-Card responds to the Modbus commands 06h [preset single register] and 10H [preset
multiple registers].

LED 0 is configured as a communication failure [Comm Fail] LED which will illuminate if no valid commands
are received for a period of ten seconds or more. Commands from the PLC are ignored for the Comm Fail
LED.

Multiple Modbus RTU slave interfaces can be daisy-chained on the same RS-485 communication line as long
as they each have unique RTU slave addresses selected by the DIP switch as shown above. If multiple
interfaces are daisy chained together at the same RTU slave address, then Jumper J3 should be removed
from all but one of the interfaces. This will make them receive-only devices.

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