

Alex-Tronix Service Bulletin No. 5, Rev 0, as of 7-31-2003

Controller: ENERCON-4, ENERCON-8

Issue: Controller looks okay, valves not operating.

Controller appears to be operating, but valves do not operate. Unit is programmed properly.

Okay folks, let's have another an F.A.Q. session....I'll ask the questions...

Q1) Is this a new system? if no move on to Q2; if yes then:

a) **Are you using the BCS-SOL's?** This is an electronic module connected to our latching solenoid (Baccara). **YOU SHOULD NOT BE....** Those are only used for the BCS system. For all Enercon controllers, only *latching* type solenoids are used.

b) **Have you checked for shorts or opens on the outputs?** Preferably using a digital multimeter... Do the following:

- 1) Disconnect the harness connector from the back of the Enercon panel.
- 2) Set your multimeter to "ohms" (omega symbol, or upside down horseshoe)
- 3) With the field wires still connected to the terminal strip, put one probe on the common and the other on each station.
- 4) Read the multimeter in ohms ... You should read a resistance from 8 to 25 ohms depending on the solenoid manufacturer. If you are using Baccara solenoids provided by us, the resistance will be approximately 9 ohms per solenoid, not counting wire resistance.

If any or all stations read "open" (infinite resistance), then you either have the wrong common wire selected or the field wiring is broken somewhere. You'll need to trouble shoot your field wiring further in depth. You can also verify the controller and solenoid are working properly by removing the solenoid from the valve and wiring it back at the controller. Operate it using the "Manual" function. If it operates there, It's your wiring!

c) **Is any or all latching solenoids wired in reverse?** All black wires must go to "C" on controller terminal. Remaining red wires connect to each individual "Station" terminals.

d) **Does your valve require an adapter between the solenoid and valve?** Check the Alex-Tronix compatibility chart and see if you need an adapter or a special O-ring to make our Baccara solenoid operate your valve. Adapters are readily available from Alex-Tronix. Do not mistake a valve adapter for a BCS-SOL module.

e) **Is the rain switch on?** If you are not using a rain switch, the switch should be set to the "NOT USED" position. If you are using the rain switch, then the switch should be set to the "USED" position and the rain switch should be checked for correct installation, operation, and wiring.



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Q2) System has been operating fine, but now not working.

a) **Is the battery pack run down?** Check the count by setting the FUNCTION SELECTOR knob to “Rain delay & Count” If the count is above 10,000 then we suggest that the battery pack be replaced, although the controller may continue to operate. The best way to test the battery pack are replace the pack with a known good one.

b) **All valves not working? or some?** If any wires are suspected broken, run test Q1-B. You can also trade station wires with each other to see if the valve in question begins to operate. If so, send in controller for service.

c) **Main water line okay?** Check this by manually operating valve (at valve not controller). Loosening solenoid will achieve this. If main water pressured up okay-- Suspect valve.

d) **Test Controller--** Verify the controller and/or solenoid are working properly by removing the solenoid from valve and wiring it back at the controller. Operate it using the “Manual” function. You can also go “down the line” of all stations and to make sure all controller outputs are working.

Questions??? Tech Support: Aram Tokatian 888-224-7630

