

Title:	CO2 does not reach level when accessing	ID:	
		0041	
Date in:	Response:	Model:	Author:
2005-02-19	2005-02-19	STX500	CMa

Q:

Looks like I was a bit premature with the StoreX 500. The CO2 level did go up to 5% but as soon as the door was opened a couple of times the level fell back to 0 and never rises.

It looks like the system starts to try and build up CO2 but then cuts out. If I cycle the power then check rd 600 the solenoid valve opens (1) this remains open for about 30 seconds then closes. I reset the time out timer to 65000. The rd t92 counts down (0,64999,65000) and the rd t88 changes to 1,00000,00120, which I guess is correct. When the rd 600 goes to 0 the t92 resets and starts counting down again. After about 2 minutes of opening and closing the solenoid, rd 600 changes to 0 and locks up (suggests solenoid is locked closed) and both rd t92 and rd t88 remain the same (0,65000,65000 and 0,00120,00120). If I cycle the power again then the whole thing starts again. The CO2 level on the read out never gets over 0.15.

Does this suggest that the valve is blocked/jammed shut? When I take off the CO2 line there is a release of pressure that suggests that the valve on the store X 500 is shut. The only other problem may be the door seal, I have the humidity up to 90% and there is some water condensation on the inside top corner of the outer door. Would this be enough to cause the CO2 loss?

A:

Thanks for your accurate description. There are two possibilities:

- 1 Increase the CO2 flow
- 2 Update firmware

1 There is a pressure regulator / valve at the inlet fitting of the CO2 line. On the current systems we do not install this pressure regulator any more. You may either remove it or open it entirely. CW will open the valve. I added a picture of this valve.

2 On the current firmware we reset the timeout not only after a user door access but also by a Gate access. If you want to update the FW we would need the serial number ("RD DM109") and the firmware version ("RD DM108") of the unit you're working on.