Resistance value measure part

Revision Date: 12/10/2024 **Subject:** E321 Error Code

Models: DVM, CHILLER, WATER

Title: EVI EEV Inlet Sensor is Open or Short

Troubleshooting Steps

1. Locate the EVI EEV Inlet sensor on the outdoor unit at CN44 on the Main PCB.

2. Ohm the sensor and compare it to the resistance chart below. If the sensor is out of range, replace the sensor.

3. If the sensor tests within range, replace the Main PCB on which the sensor is connected.

T (°C) T (°F) $Rmin(k\Omega)$ $Rcent(k\Omega)$ $Rmax(k\Omega)$

					4	
-1	30	27.33	28.47	29.63]	
0	32	26.18	27.27	28.37]	
2	36	24.06	25.03	26.02	DRED I BRESSIDE BRE	LOW I HR EEV I
3	37	23.07	24.00	24.93	WHT WHT	SSURE
5	41	21.23	22.06	22.90	CN809 [TD 514791] CN402 C	CN401 CN814 CN81:
7	45	19.55	20.30	21.06		(BLU) (BLK) (YEL) CN403(RED)
9	48	18.03	18.70	19.38		MID PRESSURE (BLU)
10	50	17.31	17.95	18.60	CN806 CN451(WHT) CN80	2(RED) CN815
11	52	16.63	17.24	17. 86		IZ IIZ (BLU)
14	57	14.77	15.29	15.81	CN805 [HUMIDITY] [F	1/F2] [5V]
15	59	14.20	14.69	15.19	CN701 CN804(RED)	CN902(WHT) CN46
17	63	13.13	13.58	14.03	EXTERNAL OUTPUT	
19	66	12.16	12.57	12.97	(BLU) CN404(WHT)	CN803(RED)
21	70	11.27	11.64	12.00	CN704 [] [5] CN704 [SNOW SENSOR] [5]	다니 WHT
22	72	10.85	11.20	11.55	(WHT) CN808(YEL)	CN807(BLU)
25	77	9.700	10.00	10.30	CN711 [GAS AUTO CHARGE]	123
26	79	9.341	9.633	9.926	(RED) GAS AUTO CHARGE, CN201(BLK)	CN203(BLK)
27	81	8.997	9.282	9.568	CN703 10 (WHT) 20 7 11	CN45 (WHT
30	86	8.049	8.313	8.578	1 – – – – – – – – – – – – – – – – – – –	HUB DOWNLOAD
31	88	7.758	8.016	8.275	(BLU) CN810(WHT)	IN DOD
33	91	7.213	7.458	7.704	(BLU) EEPROM	IN PCB CN44
34	93	6.957	7.196	7.436	CN708 CN705 (YEL) (RED)	L
37	99	6.249	6.470	6.694	13(WHT) R. [CN70
38	100	6.032	6.247	6.465	*NOTE2 4WAY 1 HOTGAS 2 BYPASS 2	TB301 (WHT

Always refer to wiring diagram for specific model.

Use the link below for a model search and see the technical data book for the wiring diagram.

https://www.samsunghvac.com/downloads