

# HEVAC Error Codes & Sensor Readings

## SENSOR VALUE DIAGNOSTIC TROUBLE CODE (DTC) IDENTIFICATION

### ----- Code Cause/Value

- 01 ..... In-Car Temperature Sensor
  - 02 ..... Outside Temperature Sensor
  - 03 ..... Heater Core Temperature Sensor
  - 05 ..... Evaporator Core Temperature Sensor
  - 06 ..... (1) Engine Coolant Temperature Sensor
  - 07 ..... (2) Refrigerant Pressure
  - 08 ..... (3) Blower Control Voltage
  - 09 ..... Software Status Of A/C-Heater Control Module
  - 15 ..... Selected In-Car Temperature
  - 20 ..... Software Version Code
  - 21 ..... (4) Engine Speed
  - 22 ..... (5) A/C Compressor Speed
  - 23 ..... Vehicle Speed
  - 50 ..... 80.Â° - 00.Â° (Not Used)
  - 51 ..... Number Of Actual Drive Belt Slip Recognitions
  - 52 ..... Number Of Actual Drive Belt Slip Recognitions
- (1) - A display of "12.Â°5" corresponds to 125 Celsius (257Â°F).  
(2) - Refrigerant pressure is displayed in bar. One bar equals 14.5037 psi. A display of "12.Â°8" corresponds to 12.8 bar (185.6 psi).  
(3) - A display of "16.Â°5" corresponds to 1.65 volts.  
(4) - A display of "06.Â°0" to "70.Â°0" corresponds to 600 RPM to 7000 RPM respectively.  
(5) - A display of "00.Â°0" to "84.Â°0" corresponds to 0 RPM to 8400 RPM respectively.

## FAULT CODES

### DTC Readout Descriptions

- 026 CAN Bus Communication
- 226 In-Car Air Temperature Sensor (B10/4)
- 227 Outside Air Temperature Sensor (B14)
- 228 Heater Core Temperature Sensor (B10/1)
- 230 Evaporator Temperature Sensor (B10/6)
- 231 Engine Coolant Temperature Sensor (B11/4)
- 232 Refrigerant Pressure Sensor (B12)
- 233 Refrigerant Temperature Sensor (B12/1)
- 241 Refrigerant Level
- 416 Coolant Circulation Pump (A31m1)
- 417 Left Duovalve (Water Valve) (Y21y1)
- 418 Right Duovalve (Water Valve) (Y21y2)
- 419 A/C Compressor Electromagnetic Clutch (A9k1)
- 420 Closed (Idle) Throttle Speed Increase
- 421 Pulse Module (N65)
- 422 Serial Interface Connection (K1) to Instrument Cluster (IC)
- 451 Diverter Flap (Y11/3)
- 452 Blend Air Flap (Y11/3)
- 453 Fresh/Recirculated Air Flap (Y11/3) Long Stroke
- 454 Fresh/Recirculated Air Flap (Y11/3) Short Stroke
- 455 Defroster Outlet Flap (Y11/3) Long Stroke
- 456 Defroster Outlet Flap (Y11/3) Short Stroke
- 457 Footwell Flap (Y11/3) Long Stroke
- 458 Footwell Flap (Y11/3) Short Stroke
- 459 Serial Interface Connection (K2) to Instrument Cluster (IC)
- 462 Wide Open Throttle (WOT) Position Signal - Diesel Engine Only