

Fall 2025 Sigler

23.3 Fault code (Computer senses negative pressure in the HX before the induced draft motor is energized).

(Like a stuck closed pressure switch).





STATUS CODE TABLE

can QR code or reference troubleshooting guide in installation manual.

The major status code is displayed in the first 2 digits of the display. The minor status code is displayed in the third digit. The major status code is also displayed on the LED indicator through the door with the first digit being the number of short flashes and the second digit being the number of long flashes.

Major Minor Description Major Minor Description Major Minor Description									
	_	Description	Major	Minor		Major	Minor	Description	
10 Rapid f	lash	L1 polarity fault			Twinned units are not identical. Program #'s do not	31	5	Loss of pressure after blower comes on	
LED 12	1	W on or BTS open at power up or within 5 minutes.		3	match. Ensure furnaces are identical (same program #)		1	Ignition fault-during four consecutive ignition trials	
13	1	Limit Lockout – switch opened in the limit circuit			when twinning. Main unit will not operate heating. Main program invalid.		2	After successful ignition (flame proven) flame loss before heating blower on delay.	
14	1	Ignition Lockout after 4 consecutive ignition tries Flame lost 3		4	Using backup program to operate. Reprogram control to correct issue. Control still operates		3	After successful ignition (flame proven) flame loss after heating blower on delay.	
	2	times after 70s of			normally. Installer settings			Flame lost while	
	3	7 loss of flame events during a heat request or three 34.4 faults during heat request Lockout – 7 loss of pressure events during a heat request	25	5	corrupted.Try reselecting installer settings, or reprogram control. Control will		4	operating at reduced inducer pressure from previous 34.3 fault condition	
					operate using default installer settings.	42	1	No RPM feedback at start-up or before ignition proved	
	4			6	Wrong program for control used - reprogram control so program matches control used. No heating operation.		2	No RPM feedback after ignition is proved	
21	1	24VAC sensed on gas valve when					3	Exceeding Inducer RPM limit (model specific)	
22	1	shouldn't be False flame		If program in furnace control is missing, not recognized, or corrupted. Reprogram control with correct program # as listed on the rating plate. Replace control if Issue remains.		45	1	Control failure – flame circuit fault, memory mismatch or sequence	
23	3	Pressure detected over 0.15" (~0.65Vdc	1					error.	
		signal to gnd, 0" = ~0.500Vdc)					2	Control failure – gas valve relay will not close	
24	1	Fuse fault	-	1	Lockout - BTS open		3	Control failure – EEPROM memory	
	1	No program info in micro, no heating	26	1	- power reset only		"	issue.	
25	2	operation. Corrupted program file, reprogram control using service app or super plug (supplied separately), no heating operation.	27	Program in super plug is missing, not recognized, or			For code 45, cycle power, if code 45 repeats, replace control.		
				2	corrupted.Remove super plug then retry. If code 27 remains, try	46	1	Momentary loss of power	
	Щ			3	a different super plug. If still fails, replace control.				
(+)			31	4	Loss of pressure before blower comes				

MENU NAVIGATION

Scroll through main menu by pressing the MENU/SELECT button. Press NEXT/OPTION button to view current setting (will flash on display) and to scroll through setting options. Press MENU/SELECT button to save new setting and return to main menu. The display will flash to confirm setting selection before returning to the main menu.

SYS	TEM STATUS	MAIN MENU				
DISPLAY	DESCRIPTION	DISPLAY	DESCRIPTION			
ıdL	Idle / Standby Mode	dL,Hb,	Current System Status			
HE	Heating Mode	FLE	Last 7 faults that occured			
CL I	Low Cooling Mode	HE	Heating Blower speed			
		EL I	Low Cooling and Low Heat Pump speed			
Cr5	High Cooling Mode	Cr5	High Cooling and High Heat Pump speed			
HPd	Heat Pump Defrost Mode	[Fn	Continuous Fan speed			
		Hod	Heat OFF delay			
[Fn	Continuous Fan Mode	Cod	Cool OFF delay			
\vdash	Secondary Unit	a r	Orientation upflow or downflow			
bLr	Operating Blower during	Fuu	Twinning Main or Secondary			
	EFn, EL, or HE	inF	Program # and Software version			
##.#	Active Status Code	CŁ	Component test			
		rSt	Reset All Installer Settings to Factory Defaults			

COMPONENT TEST

To initiate the component test sequence, the control must be in ('d'L') mode. No thermostat demands (W, Y, G). Select component test (EE) from menu select buttons to start the component test sequence. Once initiated the furnace control will perform the following sequence:

- 1. Pur Inducer ON (remains ON for test).
- 2. HS I- After waiting 10s, HSI ON for 15 seconds.
- 3. Fn- After HSI, then Blower ON for 10 seconds.
- End- After Blower, Inducer ON for 10 more seconds. The test ends.

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3

Pressure detected over 0.15" (~0.65Vdc signal to gnd, 0" = ~0.500Vdc)



Pressure Transducer



- Used instead of a pressure switch.
- Converts pressure to a voltage signal.
- Used by the furnace control to precisely adjust inducer speed and pressure through heat exchanger.
- It has a constant DC voltage output when the unit is powered.

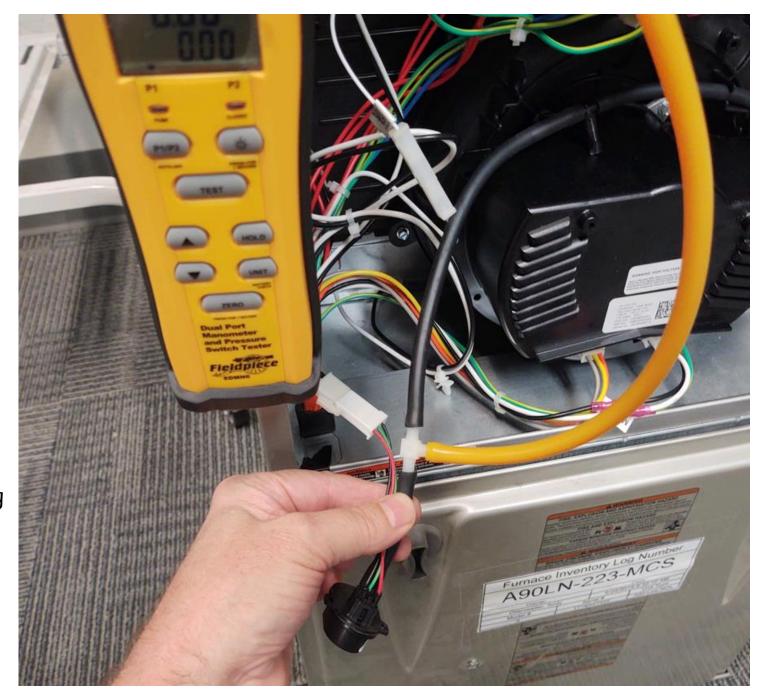
Transducer operation:

The transducer reads the pressure and outputs a DC voltage based on the pressure it is seeing.

You must know the pressure when testing the DC voltage output.

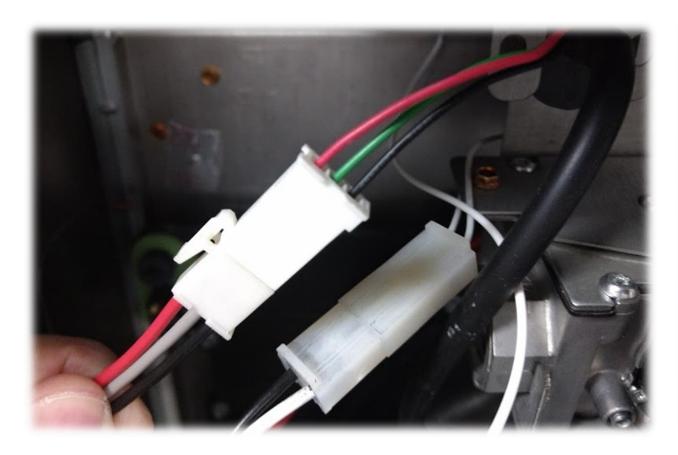
If the DC voltage output does not match the pressure the transducer is out of calibration and should be replaced.

The DC voltage output can be measured with or without the inducer motor running



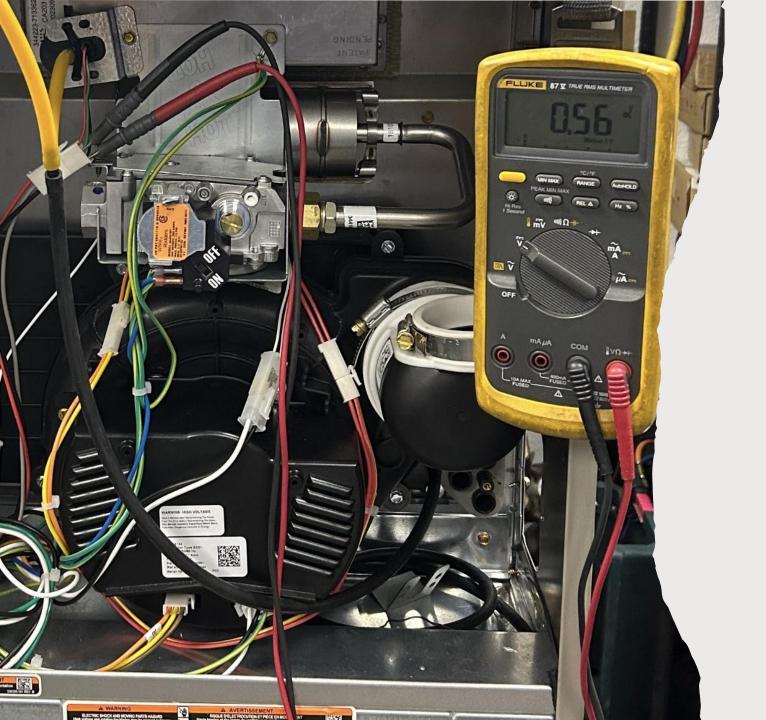
How to test the Pressure Transducer in standby mode →

- 1. Furnace power should be on but with no call for heat. (Standby)
- 2. Remove the tubing from the transducer.
- 3. Your voltmeter probes go in the back side of the plug.
- 4. Check for Supply DC volts at Red and Green Wire.
- 5. Check for Feedback DC volts at the Black and Green Wire.









- This picture shows an example of the Feedback/Output DC volts
- This transducer is good because the output dc volts are within the
- .43 to .58vdc range at 0"wc negative pressure.

HK05ZZ013=Latest Pressure Transducer Part Number

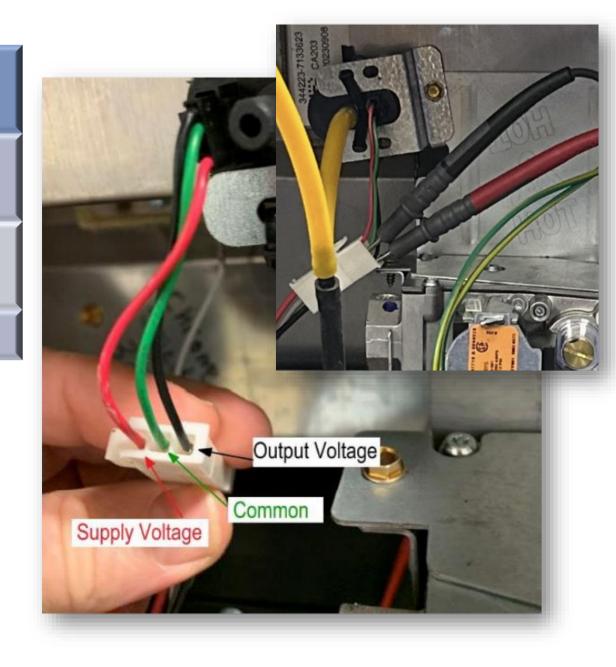
Red Wire = Supply/Input Voltage-→ 12vdc

Black Wire = Feedback/Output Voltage → .50vdc Acceptable range → .43vdc to .58vdc

Green Wire = Ground

Red and Green wire = Supply/Input voltage
Black and Green wire = Feedback/Output of feedback
voltage

If the Feedback/Output Voltage is greater than .65 volts you get a 23.3 and the transducer should be replaced!



23.3 code? Here's what we need from you for warranty.

Use a voltmeter capable of reading as low as .40vdc!

Transducer standby Supply/Input Voltage .__ vdc

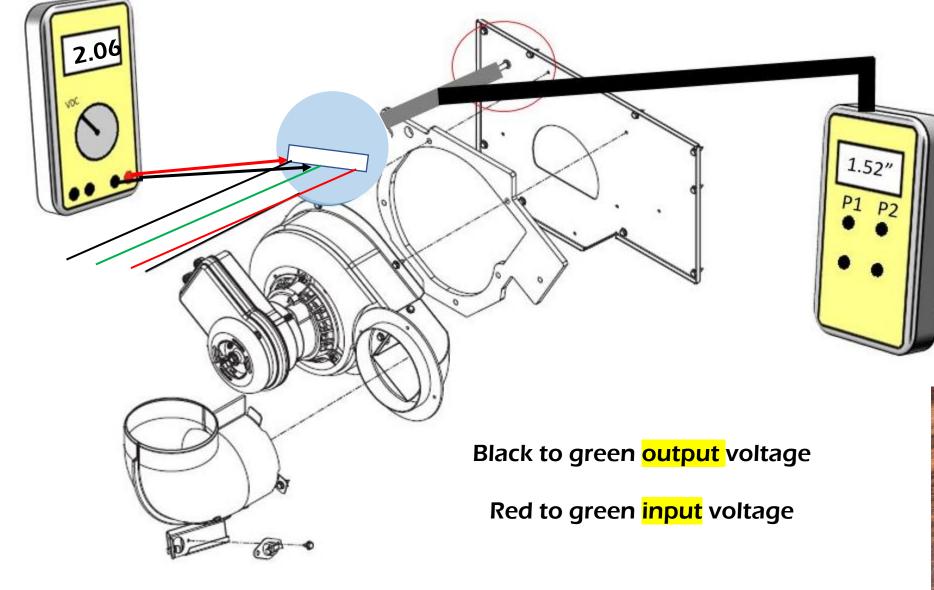
Transducer Standby Feedback/Output Voltage .__vdc

Transducer Standby Negative Pressure .___"w.c. (If the hose is off the transducer, then it's 0"wc.)

Include these numbers on the Warranty SCA form with the faulty transducer to receive credit..



Additional Transducer info...





Target Pressures – BLUE CONTROLS

Heating Call Sequence		80% furnaces				90% furnaces			
Unit Size (KBTU/h)	40	60	80	100	40	60	80	100	
Model Plug	HK70EZ024	HK70EZ026	HK70EZ028	HK70EZ029	HK70EZ032	HK70EZ034	HK70EZ036	HK70EZ037	
Startup (Heat call initiation)									
Inducer pressure (In.W.C.) (must be less than)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
Transducer feedback (VDC) (must be less than)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
PrePurge and Ignition (15s+ igniter warmup)									
Inducer pressure (In.W.C.)	0.60	0.65	1.10	0.80	1.65	1.40	1.50	2.00	
Transducer feedback (VDC)	1.10	1.15	1.60	1.30	2.15	1.90	2.00	2.50	
Flame Stabilization									
Inducer pressure (In.W.C.)	0.70	1.00	1.30	1.10	2.15	1.80	1.80	2.20	
Transducer feedback (VDC)	1.20	1.50	1.80	1.60	2.65	2.30	2.30	2.70	
Time at this pressure (seconds)	2	-	-	10	10	-	-	-	
Run pressure									
Inducer pressure (In.W.C.)	1.90	1.25	1.55	1.45	2.40	2.25	2.35	2.40	
Transducer feedback (VDC)	2.40	1.75	2.05	1.95	2.90	2.76	2.85	2.90	
Post Purge	Inducer RPM	will remain the	same is it was	when the heat	call was tern	ninated, so pr	essure and res	sultant	

Inducer RPM will remain the same is it was when the heat call was terminated, so pressure and resultant Transducer voltage will rise very slightly as the unit cools