

TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

Number: TIC2025-0010

Date: 04/03/2025

Title: Residential Fault Code List

Product Category: Residential Communicating Systems

Products Affected:

Residential Communicating Systems

Situation:

An update to the master fault code list for communicating systems.

Technical Information:

Master fault code list has been updated to reflect current released product in the field. Use this as a reference document for faults associated with communicating systems

Note:

To look up a code quickly, use Ctrl+F and enter the code number.

References:

Code	Device	Description
1	Dissipation Board	Dissipation in progress
2	Dissipation Board	Sensor 1 open
3	Dissipation Board	Dissipation in progress
4	Dissipation Board	OVAC sensed on G output
5	Dissipation Board	Fault with refrigerant digital sensor
6	Dissipation Board	If Y1 is stuck pressed for more than 30 seconds
7	Dissipation Board	Y out switched with Y in or W out switched with W in
8	Dissipation Board	Y or W shorted (relay detects both sides are high)
9	Dissipation Board	Sensor 2 Not used in res.
10	Dissipation Board	Not used in res
11	Dissipation Board	Not used in res
12	Dissipation Board	Additive sensor current rating exceeds 1.1A
13	Dissipation Board	Not used in res
10.1	Indoor	L1 polarity fault
10.2	Indoor	Refrig dissipation event

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TECHNICAL INFORMATION COMMUNICATION



12	Indoor	Blower on after power-up
12.1	Indoor	W on at power up
13	Indoor	Limit lockout
13.1	Indoor	Limit lockout
14	Indoor	Ignition lockout
14.1	Indoor	Ignition lockout for 4 consecutive ignition tries
14.2	Indoor	Flame rollout algo lockout
14.3	Indoor	Ignition lockout for loss of flame later in heating cycle (ULN) or exceeding ignition trials in one heat call
14.4	Indoor	Lockout - Maximum pressure faults exceeded in one heat call
15	Indoor	Blower lockout
15.1	Indoor	Blower lockout - no blower RPM detected
15.2	Indoor	Blower lockout - failed to reach 500 RPM after retry
16	Indoor	Communication error
17.1	Indoor	Lost BTM communication
21	Indoor	Gas heat lockout
21.1	Indoor	Gas valve fault
22	Indoor	Flame sense error
22.1	Indoor	False flame
23	Indoor	LPS or HPS closed
23.3	Indoor	Pressure on ULN not < than 0.15 in. w.c.
23.4	Indoor	Low pressure switch closed
23.5	Indoor	High pressure switch closed (Requires the HPSR contact to be stuck closed as well)
23.6	Indoor	Medium pressure switch closed
24	Indoor	24VAC fuse open
24.1	Indoor	Fuse fault
25	Indoor	Invalid model
25.1	Indoor	No recipe info in local tag chip
25.2	Indoor	Corrupted recipe info in local tag chip
25.4	Indoor	Primary recipe invalid, using secondary recipe to operate
25.5	Indoor	Installer settings corrupted, using default installer settings
25.6	Indoor	Incompatible recipe
26	Indoor	Invalid heater size
26.1	Indoor	Burner thermal switch (BTS) open lockout (ULN)
27	Indoor	Invalid AC/HP size
27.1	Indoor	No recipe info in model plug
27.2	Indoor	Corrupted recipe info in model plug

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TECHNICAL INFORMATION COMMUNICATION



27.3	Indoor	Failed to copy recipe from super model plug
31	Indoor	High pressure switch open
31.1	Indoor	Medium heat pressure switch input OFF when it should be ON
31.2	Indoor	Medium heat pressure switch input ON when it should be OFF
31.3	Indoor	HPSR contact for ULN does not close when it should be closed
31.4	Indoor	Loss of pressure before blower on (ULN only)
31.5	Indoor	Loss of pressure after blower on (ULN only)
31.6	Indoor	Open HPS - HPS failed to close in 75s when transitioning from low to high heat
31.7	Indoor	High heat only for remainder of current cycle
32	Indoor	Low pressure switch open
32.2	Indoor	Open LPS
32.3	Indoor	Loss of pressure during low heat (ULN only)
33	Indoor	Limit fault
33.1	Indoor	Limit fault
34	Indoor	Ignition fault
34.1	Indoor	Ignition fault - 4 consecutive tries before blower on delay
34.2	Indoor	Ignition fault before on delay completes
34.3	Indoor	Ignition fault after on delay
34.4	Indoor	Ignition fault - any self healing mode (ULN only)
34.5	Indoor	Low heat or medium heat flame lost before on delay completes
34.6	Indoor	Low heat or medium heat flame lost after on delay
34.7	Indoor	High heat flame lost before on delay completes
34.8	Indoor	High heat flame lost after on delay
35	Indoor	Modulating gas valve communication fault
35.1	Indoor	Modulating gas valve fault
36	Indoor	Control fault, heater may be off
37	Indoor	Control fault, heater stuck on
41	Indoor	Blower motor fault
41.1	Indoor	No blower RPM at startup
41.2	Indoor	No RPM when blower motor is running
41.3	Indoor	Blower failed to reach 500 RPM at startup for CFM control
42	Indoor	Inducer fault
42.1	Indoor	No inducer RPM at start up
42.2	Indoor	No RPM when inducer motor is running
42.3	Indoor	Exceeding inducerRPM limit (model specific)
43	Indoor	LPS Open HPS closed

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TECHNICAL INFORMATION COMMUNICATION



43.1	Indoor	HPS input sensed closed before LPS,MPS input closed before LPS
43.2	Indoor	HPSR contact stuck closed
44	Indoor	Cannot communicate with blower
45	Indoor	Control fault
45.1	Indoor	Control failure - flame circuit fault, memory mismatch or sequence error
45.2	Indoor	Control failure - gas valve relay will not close
45.3	Indoor	Control failure - EEPROM memory issue
45.4	Indoor	Control failure - loss of communication between dual micro
51.1	Indoor	Outdoor ambient temperature open
51.2	Indoor	Outdoor ambient temperature short
52.1	Indoor	Supply air temperature open
52.2	Indoor	Supply air temperature short
53	Indoor	Outdoor air temp sensor fault
53.1	Indoor	Return air temperature open
53.2	Indoor	Return air temperature short
16	Outdoor	Communication error
25	Outdoor	Invalid model plug / inverter size
31	Outdoor	High pressure switch open
32	Outdoor	Low pressure switch open (2016 - not sent to wall control)
33	Outdoor	Lost Inverter Communications (not sent to wall control)
45	Outdoor	Control fault
46	Outdoor	Brownout on 230V
47	Outdoor	No 230V to unit
48	Outdoor	Lost inverter communications
49	Outdoor	230VAC dropout-reset event
49	Outdoor	Compressor over current fault
53	Outdoor	Outdoor air temp sensor fault
54	Outdoor	Outdoor suction temperature sensor fault
55	Outdoor	Coil temperature sensor fault
56	Outdoor	OAT-OCT thermistor out of range (2016 - not sent to wall control)
57	Outdoor	Freeze sensor fault
57	Outdoor	Suction pressure sensor fault
58	Outdoor	Suction thermistor range fault
59	Outdoor	Discharge temp out of range event (2016 - not sent to wall control)
61	Outdoor	Fan inverter fault (2016 - not sent to wall control)
62	Outdoor	Compressor no start

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TECHNICAL INFORMATION COMMUNICATION



62	Outdoor	Fan inverter temperature high (2016 - not sent to wall control)
63	Outdoor	Fan inverter over current (2016 - not sent to wall control)
65	Outdoor	DC volts low speed limiting (2016 - not sent to wall control)
66	Outdoor	Outdoor fan dropped out (2016 - not sent to wall control)
67	Outdoor	Stator heater fault (2016 - not sent to wall control)
68	Outdoor	Compressor sump heating active
68	Outdoor	10 min stage 2 warm-up delay
69	Outdoor	Inverter/Compressor internal fault
71	Outdoor	Thermal cutout in low stage
71	Outdoor	Compressor motor temp out of range event
71	Outdoor	Compressor dropped out (2016 - not sent to wall control)
72	Outdoor	Thermal cutout in high stage
72	Outdoor	Suction over temp event (2016 - not sent to wall control)
73	Outdoor	Contactors shorted
74	Outdoor	No voltage to compressor
74	Outdoor	Discharge temp out of range lockout
75	Outdoor	Inverter temp out of range event
75	Outdoor	Maximum power mode – temp (2016 - not sent to wall control)
75	Outdoor	Low speed no start
76	Outdoor	Fan inverter lockout
76	Outdoor	Low stage repeat no start
77	Outdoor	Inverter over current event
77	Outdoor	Maximum power mode – comp current (2016 - not sent to wall control)
77	Outdoor	High speed no start
78	Outdoor	High stage repeat no start
79	Outdoor	Compressor no-pump event
79	Outdoor	Compressor/Inverter fault (2016 - not sent to wall control)
79	Outdoor	Run capacitor failed
81	Outdoor	Thermal Lockout in Low Stage 4 Hours
82	Outdoor	Thermal Lockout in High Stage 4 Hours
82	Outdoor	Suction Over Temp Lockout
83	Outdoor	Low Pressure Lockout 4 Hours
84	Outdoor	High Pressure Lockout 4 Hours
85	Outdoor	Condensate Overflow (GC only)
85	Outdoor	Compressor Temp Lockout
85	Outdoor	Fan Inverter Temp Lockout

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TECHNICAL INFORMATION COMMUNICATION



85	Outdoor	Low Contactor Open
86	Outdoor	Freeze Sensor Lockout
86	Outdoor	Compressor Temp Sensor Fault
86	Outdoor	Fan Inverter Current Lockout
86	Outdoor	Low Contactor Closed
87	Outdoor	High Contactor Open
88	Outdoor	Inverter Temp Lockout
88	Outdoor	Compressor / Inverter Lockout
88	Outdoor	High Contactor Closed
89	Outdoor	Comp Inverter Over Current Lockout (2015 and earlier)
89	Outdoor	Start Capacitor/ Relay Failed
91	Outdoor	Inverter VDC-Out Over Voltage Event (2016 - not sent to wall control)
92	Outdoor	Inverter VDC-Out Under Voltage Event (2016 - not sent to wall control)
93	Outdoor	230VAC Under Voltage Event (2016 - not sent to wall control)
94	Outdoor	230VAC Over Voltage Event (2016 - not sent to wall control)
95	Outdoor	High Current Lockout
95	Outdoor	Compressor Over Current Lockout
96	Outdoor	VDC Under Voltage Lockout
97	Outdoor	VDC Over Voltage Lockout
98	Outdoor	High Torque Event
99	Outdoor	High Torque Lockout
127	Outdoor	EQUIPMENT FIRMWARE UPDATE FAILURE
139	Outdoor	Defrost Timeout Error
13-53	Outdoor	Sys Cntrl Upgrade Strongly Recommended
13-82	Outdoor	System Control Upgrade Recommended
14-94	Outdoor	Line Voltage Low
15-94	Outdoor	Line Voltage High
17-06	Outdoor	Lost BTM Communication
18-11	Outdoor	Indoor Coil Freeze Protection
24-58	Outdoor	5V PCM Power Out of Range Lockout
25-22	Outdoor	Model Plug Missing
25-24	Outdoor	Model Plug Changed
25-61	Outdoor	Invalid Model Plug Lockout
25-62	Outdoor	Model Plug Missing Lockout
25-63	Outdoor	VFD System Lockout - Model Mismatch
26-26	Outdoor	PCM MCU Old Version A

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TECHNICAL INFORMATION COMMUNICATION



26-27	Outdoor	PCM Reprogramming Failure
26-31	Outdoor	External EEPROM Write Failure
28-71	Outdoor	Fuse 1 Open Lockout
28-72	Outdoor	Fuse 2 Open Lockout
31-11	Outdoor	Compressor High Pressure Limiting
31-16	Outdoor	High Pressure Switch Shutdown
31-19	Outdoor	High Pressure Disable
31-58	Outdoor	Compressor High Pressure Lockout
32-15	Outdoor	Compressor Low Suction Shutdown
32-55	Outdoor	Compressor Low Suction Lockout
32-59	Outdoor	Low Pressure Lockout
33-15	Outdoor	Compressor Low Discharge Shutdown
33-55	Outdoor	Compressor Low Discharge Lockout
34-11	Outdoor	Compressor High Temp Limiting
34-58	Outdoor	Compressor High Temp Lockout
35-11	Outdoor	Compressor High Compression Limiting
35-58	Outdoor	Compressor High Compression Lockout
36-15	Outdoor	Compressor Low Compression Shutdown
36-55	Outdoor	Compressor Low Compression Lockout
38-13	Outdoor	VFD Compressor Fault - Start Fail
38-18	Outdoor	High Diff Pressure Start Disable
38-31	Outdoor	VFD Compressor Fault - Estimator
38-53	Outdoor	VFD Compressor Lockout - Start Fail
38-54	Outdoor	Compressor No Pump Lockout
38-71	Outdoor	VFD Compressor Lockout - Estimator
39-13	Outdoor	Fan Start Failure
39-14	Outdoor	Fan Speed Error
39-15	Outdoor	Unexpected Fan Shutdown
39-53	Outdoor	Fan Start Failure Lockout
39-55	Outdoor	Unexpected Fan Shutdown Malfunction
39-58	Outdoor	VFD System Lockout - Fan Motor Fail
41-13	Outdoor	Defrost Timeout
44-13	Outdoor	PEV Timeout
51-01	Outdoor	OAT Open
51-02	Outdoor	OAT Shorted
52-01	Outdoor	OCT Open

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TECHNICAL INFORMATION COMMUNICATION



52-02	Outdoor	OCT Shorted
53-01	Outdoor	OST Open
53-02	Outdoor	OST Shorted
53-41	Outdoor	OST Open - Backup Heat Only
53-42	Outdoor	OST Shorted - Backup Heat Only
54-01	Outdoor	ODT Open
54-02	Outdoor	ODT Shorted
55-01	Outdoor	LLT-HP Open / Low Temp
55-02	Outdoor	LLT-HP Shorted / High Temp
56-01	Outdoor	XLT Open / Low Temp
56-02	Outdoor	XLT Shorted / High Temp
57-01	Outdoor	P1 Open Fault
57-02	Outdoor	P1 Shorted Fault
57-41	Outdoor	P1 Open Lockout
57-42	Outdoor	P1 Shorted Lockout
57-43	Outdoor	P1 Sensor Lockout
58-01	Outdoor	P2 Open Fault
58-02	Outdoor	P2 Shorted Fault
58-41	Outdoor	P2 Open Lockout
58-42	Outdoor	P2 Shorted Lockout
58-43	Outdoor	P2 Sensor Lockout
61-13	Outdoor	Reversing Valve Timeout Fault
61-41	Outdoor	RVS Open Lockout
61-53	Outdoor	Reversing Valve Timeout Lockout
62-01	Outdoor	PEV Solenoid Open
64-41	Outdoor	EXV-H Phase Open Lockout
66-41	Outdoor	VFD Control Relay Open Lockout
66-42	Outdoor	VFD Control Relay Shorted Lockout
81-13	Outdoor	VFD System Fault - PFC
81-14	Outdoor	VFD System Fault - Unbalanced PFCM
81-53	Outdoor	VFD System Lockout - PFC
81-54	Outdoor	VFD System Lockout - Unbalance PFCM
81-58	Outdoor	VFD System Lockout - Wiring Error
81-82	Outdoor	VFD System Fault - PFC (Minor)
82-11	Outdoor	VFD System Fault - Line Current Lim
82-13	Outdoor	VFD Reset with Power Dropout

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TECHNICAL INFORMATION COMMUNICATION



82-15	Outdoor	VFD Fault with Power Dropout
82-16	Outdoor	VFD System Fault - Low Line Volt
82-17	Outdoor	VFD System Fault - High Line Volt
82-53	Outdoor	VFD Lockout - Reset with Power Dro
82-55	Outdoor	VFD lockout - Fault with Power Drop
82-56	Outdoor	VFD System Lockout - Low Line Volt
82-57	Outdoor	VFD System Lockout - High Line Volt
83-11	Outdoor	VFD Compressor Fault - Current 1
83-12	Outdoor	VFD Compressor Fault - Current 2
83-15	Outdoor	VFD Compressor Fault - Current 3
83-16	Outdoor	VFD Compressor Fault - Current 4
83-55	Outdoor	VFD Compressor Lockout - Current 3
83-56	Outdoor	VFD Compressor Lockout - Current 4
83-57	Outdoor	VFD Compressor Lockout - Current 1
84-11	Outdoor	VFD Overtemp Limiting
84-58	Outdoor	VFD Overtemp Lockout
85-13	Outdoor	VFD System Fault - DC Under Voltage
85-14	Outdoor	VFD System Fault - DC Over Voltage
85-53	Outdoor	VFD System Lockout - DC Under Volt
85-54	Outdoor	VFD System Lockout - DC Over Volt
86-06	Outdoor	VFD System Fault - Communication
86-46	Outdoor	VFD System Lockout - Communication
87-13	Outdoor	VFD Initialization Fault
87-53	Outdoor	VFD System Lockout - Initialization
88-15	Outdoor	VFD Internal Fault - Unexpected Reset
88-27	Outdoor	VFD Reprogramming Failure
88-31	Outdoor	VFD Internal Fault - Current Sensor
88-32	Outdoor	VFD Internal Fault - IPM Temp Sensor
88-33	Outdoor	VFD Internal Fault - DC Link Sensor
88-34	Outdoor	VFD Internal Fault - PFCM Sensor A
88-35	Outdoor	VFD Internal Fault - PFCM Sensor B
88-36	Outdoor	VFD Internal Fault - Line Volt Sensor
88-37	Outdoor	VFD Internal Fault - PFCM Temp Sensor
88-38	Outdoor	VFD Internal Fault - DC Discharge
88-39	Outdoor	VFD Internal Fault - Microprocessor
88-55	Outdoor	VFD Lockout - Unexpected Reset

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TECHNICAL INFORMATION COMMUNICATION



88-71	Outdoor	VFD Lockout - Comp Current Sensor
88-73	Outdoor	VFD Lockout - DC Link Sensor
88-74	Outdoor	VFD Lockout - PFCM Sensor A
88-75	Outdoor	VFD Lockout - PFCM Sensor B
88-76	Outdoor	VFD Lockout - Line Volt Sensor
88-78	Outdoor	VFD Lockout - Int DC Discharge
88-79	Outdoor	VFD Lockout - Microprocessor Fault
61	SAM	Device out of range
62	SAM	Loss of device communications
63	SAM	Device not registered
64	SAM	Aux sensor alert
65	SAM	Security violated
192	SAM	Radio Test Failed
193	SAM	Profile Failed
171	Smart Sensor	Zone 2 comm
172	Smart Sensor	Zone 3 comm
173	Smart Sensor	Zone 4 comm
174	Smart Sensor	Zone 5 comm
175	Smart Sensor	Zone 6 comm
176	Smart Sensor	Zone 7 comm
177	Smart Sensor	Zone 8 comm
80	Wall Control	Low press switch open
100	Wall Control	Duct Cal: Zone X Damper Stuck/Miswired (Zoning Calibration: Damper[x] stuck or mis-wired)
101	Wall Control	Duct Cal: All Closed Failure (Zoning Calibration: "All Dampers Closed" check failed)
102	Wall Control	Duct Cal: Total Size Failure (Zoning Calibration: "Total Size Calculation" check failed)
126	Wall Control	Two consecutive 33 limit trips on furnace raising a high heat
128	Wall Control	Low Pressure Switch Open
129	Wall Control	High Pressure Switch Open
130	Wall Control	Outdoor Air Temp Sensor Fault
131	Wall Control	Coil Temp Sensor Fault
132	Wall Control	Temp Sensor out of Range
133	Wall Control	Contactors Shorted
134	Wall Control	Thermal Cutout in Low Stage
135	Wall Control	Thermal Cutout in High Stage
136	Wall Control	No 240V at Compressor
137	Wall Control	Thermal Lockout in Low Stage

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TECHNICAL INFORMATION COMMUNICATION



138	Wall Control	Thermal Lockout in High Stage
140	Wall Control	Unzoned
141	Wall Control	Zone 1
142	Wall Control	Zone 2
143	Wall Control	Zone 3
144	Wall Control	Zone 4
145	Wall Control	Zone 5
146	Wall Control	Zone 6
147	Wall Control	Zone 7
148	Wall Control	Zone 8
160	Wall Control	Humidity Sensor Fault
161	Wall Control	Excess Static Press Stagedown
162	Wall Control	Remote Sensor Fault
170	Wall Control	Smart Sensor Zone 1 Comm Fault
178	Wall Control	Indoor Unit Communication Fault
179	Wall Control	Outdoor Communication Fault
180	Wall Control	Zone 1-4 Communication Fault
181	Wall Control	Zone 5-8 Communication Fault
182	Wall Control	NIM Communication Fault
185	Wall Control	B36 Communication Fault
186	Wall Control	SAM Communication Fault
187	Wall Control	Low Room Temp Alert
188	Wall Control	High Room Temp Alert
189	Wall Control	High Humidity Alert
190	Wall Control	Entering Water Temperature Sensor Fault (GeoHP only)
194	Wall Control	Possible Frozen Coil
195	Wall Control	Utility Curtailment Event
196	Wall Control	Auxiliary Input (G) Shutdown
197	Wall Control	Generator Malfunction (Not used due to patent issues)
198	Wall Control	Auxiliary Input (G) Alert (Can be renamed by home owner in Version -11)
210	Wall Control	Excessive Static Press Encountered
211	Wall Control	Zone 1 Airflow Limited Stage Down Occurred
212	Wall Control	Zone 2 Airflow Limited Stage Down Occurred
213	Wall Control	Zone 3 Airflow Limited Stage Down Occurred
214	Wall Control	Zone 4 Airflow Limited Stage Down Occurred
215	Wall Control	Zone 5 Airflow Limited Stage Down Occurred

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TECHNICAL INFORMATION COMMUNICATION



216	Wall Control	Zone 6 Airflow Limited Stage Down Occurred
217	Wall Control	Zone 7 Airflow Limited Stage Down Occurred
218	Wall Control	Zone 8 Airflow Limited Stage Down Occurred
224	Wall Control	Watchdog Fault SDCard Task
224	Wall Control	Watchdog Fault USB Task
225	Wall Control	Watchdog Fault BLE Task
225	Wall Control	Watchdog Fault USNAP Task (ING only)
226	Wall Control	Watchdog Fault System Control Task
227	Wall Control	Watchdog Fault Touch Screen Task
228	Wall Control	Watchdog Fault CCN Task
229	Wall Control	Watchdog Fault Nonvolatile Memory Task
230	Wall Control	Watchdog Fault CAT Task
231	Wall Control	Watchdog Fault GUI Task
232	Wall Control	Watchdog Fault WiFi Task
233	Wall Control	Watchdog Fault REST Task
234	Wall Control	Watchdog Fault Caused Reset
235	Wall Control	Wi-Fi Communication Fault
236	Wall Control	Wi-Fi Upgrade Failed
240	Wall Control	EEPROM Writing Failure
241	Wall Control	CCN Communications Failure (reset occurred)
241	Wall Control	Fan energized by Auxiliary input <sensor name><label>
52	Zone Board	HPT sensor fault

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