






## READ ALARM CODES

1. Press  for 5 seconds.
2. Press  or  to clear displayed code.
3. Press  to scroll through remaining codes.
4. Press  to return to normal operation.

### Code Description

00	No Alarms
01	Water Temp Sensor out of range
02	Evap Coil Temp Sensor out of range
03	Return Air Temp Sensor out of range
04	Discharge Air Temp Sensor out of range
05	Ambient Air Temp Sensor out of range
06	Comp Discharge Temp Sensor out of range
07	Low heating capacity
08	Compressor discharge temp warning
09	Low cooling capacity
10	High pressure shutdown
11	Low pressure shutdown
12	Compressor discharge temp shutdown
13	Condenser inverter drive fault
14	Evaporator inverter drive fault
15	Compressor clutch output fault
16	Boost pump output fault
17	Condenser high speed output fault
18	Condenser low speed output fault
19	Condenser variable speed output fault
20	Unloader solenoid 1 output fault
21	Unloader solenoid 2 output fault
22	Discharge pressure transducer out of range
23	Suction pressure transducer out of range
25	Evaporator high speed output fault
26	Evaporator medium speed output fault
27	Evaporator low speed output fault
28	Evaporator variable speed output fault
29	Liquid valve output fault
30	Modulating liquid valve output fault
31	Coolant valve output fault
32	Coolant valve feedback fault
33	Floor coolant valve output fault
34	Floor coolant valve feedback fault
35	Fresh air damper output fault

### Code Description

36	Fresh air damper feedback fault
40	Base module internal fault
41	Base module battery power input fault
42	Base module control power input fault
43	Base module compressor power input fault
44	Base module boost pump power input fault
50	Exp module 1 internal fault
51	Exp module 1 battery power input fault
52	Exp module 1 control power input fault
60	Exp module 2 internal fault
61	Exp module 2 battery power input fault
62	Exp module 2 control power input fault
70	Exp module 3 internal fault
71	Exp module 3 battery power input fault
72	Exp module 3 control power input fault
80	Exp module 4 internal fault
81	Exp module 4 battery power input fault
82	Exp module 4 control power input fault
90	Condenser service timer has expired
91	Evaporator 1 service timer has expired
92	Evaporator 2 service timer has expired
93	Evaporator 3 service timer has expired
95	Display module not responding
96	Exp module 1 not responding
97	Exp module 2 not responding
98	Exp module 3 not responding
99	Exp module 4 not responding

Alarm codes above 100 refer to the Zone affected by the fault, and the remaining 2 numbers refer to the actual alarm code.

Alarm Code 100 and up	Zone 1
Alarm Code 200 and up	Zone 2
Alarm Code 300 and up	Zone 3



Thermo King Corporation  
Ingersoll-Rand Company  
314 West 90th Street  
Minneapolis, MN 55420-3693  
[www.thermoking.com](http://www.thermoking.com)



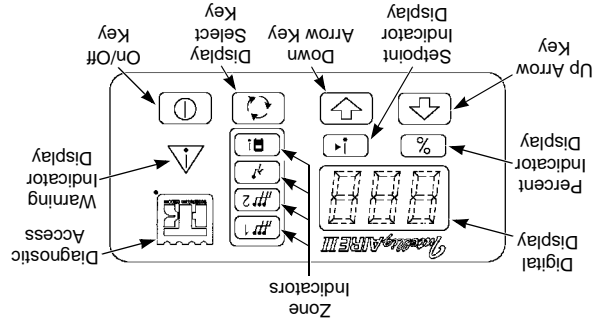
## IntelligAIRE II

## Diagnostic Procedures Pocket Guide

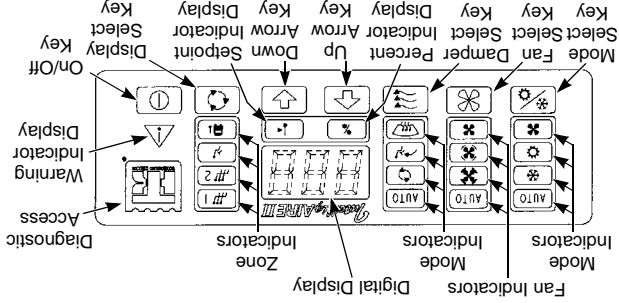
TK 51712-3-PC (Rev. 1, 01-05)



## STANDARD DISPLAY PANEL



## DELUXE DISPLAY PANEL



## DIAGNOSTIC TOOLS

SMART-Pac Software CD	204-888	204-1040
PC Interface Cable (metal)	41-3618	41-4195
PC Interface Cable (plastic)		
Standard Display		
Display Cable		

## READ SETUP PARAMETERS

1. Press and for 5 seconds.
2. Press to scroll through parameters:

Parameter	Setting	Default
Un	_____	(F)
CC	_____	(rH)
HC	_____	(82)
LC	_____	(62)
HH	_____	(82)
LH	_____	(62)
HA	_____	(82)
LA	_____	(62)

## READ HOURMETERS

1. Press for 5 seconds.
2. Automatically displays:

Un (unit)	Hr (hours)	XX XX XX
EP1 (evap 1)	Hr (hours)	XX XX XX
EP2 (evap 2)	Hr (hours)	XX XX XX
EP3 (evap 3)	Hr (hours)	XX XX XX
Cp (comp)	Hr (hours)	XX XX XX
rtc (real time clock)		
Hr (hour—24 hour format)		XX
UfE (minute)		XX
nth (month)		XX
day (day of month)		XX
yr (year)		XX

3. Automatically returns to normal operation.

## READ SENSOR CALIBRATION

1. Press and for 5 seconds.
2. Press to scroll through analog inputs.

3. Press or to read current calibration.
  4. Press to return to normal operation.
- NOTE: See schematic diagram to identify the analog input number for each sensor.*
- NOTE: To modify the calibration, a PC with SMART-Pac software is required.*

## SERVICE TEST MODES

- | Test | Description   |
|------|---|
| Pt   | Pretrip Test—automatically energizes each output.                     |
| rt   | Relay Test—manually energizes each output.                            |
| Ft   | Functional Test—forces unit to operate in Cool, Heat, or Vent.        |
| Efx  | Evap Fan Test—manually control evaporator fan speed 0 to 100%.        |
| CF   | Cond Fan Test—manually control condenser fan speed 0 to 100%.         |
| CUX  | Coolant Valve Test—manually control coolant valve position 0 to 100%. |
| dPx  | Damper Test—manually control damper position 0 to 100%.               |

3. Press or to start the selected test, then as required to sequence through the test.
4. Press to stop test in process and return to normal operation.