Current Models

These pages cover the current Inverter product range.

They also cover the ARY60U, ARY54U Single and AOY19/24F/U Multi Systems.

Models with Wireless Controllers Trouble Shooting from the Indoor Unit

Wall Mounted Single Systems ASY, ASYA & ASYB Includes AWYZ Nokria Models

All Other Wireless Indoor Units AUY, ABY & AWY Models. Including Multi Systems (Not J Series or VRF)

Off2 FlashesReverse Comms Fail at StartupOnNormalOff3 FlashesReverse Comms Fail In UseOnSlow BlinkSlow BlinkTestOff4 FlashesForward Comms Fail In UseBlinksBlinksBlinksOD POwer Connection Failure2 Flashes2 FlashesIndoor Air Sensor FailBlinks2 PlusesOffOD D Unit Pipe Sensor Fail2 Flashes3 FlashesIndoor Pipe Sensor FailBlinks3 PulsesOffOD Unit X Sensor Fail2 Flashes4 FlashesFloate exchanger sensor errorBlinks4 PulsesOffOD Unit Disch Sensor Fail3 Flashes6 FlashesFloatswitch operatedBlinks5 PulsesOffOD Unit Disch Sensor Fail3 Flashes3 FlashesOD Disch Sensor FailBlinks5 PulsesOffHigh Pressure3 Flashes7 FlashesCompressor TempBlinks6 PulsesOffIPM Error3 Flashes7 FlashesCompressor Temp Sensor FailBlinks10 PulsesOffIPM Error4 Flashes3 FlashesCompressor Temp Sensor FailBlinks10 PulsesOffOD Unit Disch Sensor Fail4 Flashes3 FlashesReverse VDD Permament Stop ProtectionBlinks10 PulsesOffOD Fan Motor Fail4 Flashes7 FlashesFlashesReverse VDD Permament Stop2 PulsesBlinks10 PulsesOff5 Flashes7 FlashesFlashesCompressor Fail3 PulsesBlinks10 Pulses <t< th=""><th>Red Light Operation</th><th>Green Light Timer</th><th>Current Models</th><th>Red Light Operation</th><th></th><th>Yellow Light Swing</th><th></th></t<>	Red Light Operation	Green Light Timer	Current Models	Red Light Operation		Yellow Light Swing	
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7 Flashes6 FlashesCompressor Temperature error8 Flashes2 FlashesActive Filter AFM Fail 1st Time8 Flashes3 FlashesActive Filter AFM Fail 2nd Time8 Flashes4 FlashesPFC Circuit Error	7 Flashes	4 Flashes	4-Way valve abnormal				
8 Flashes2 FlashesActive Filter AFM Fail 1st Time8 Flashes3 FlashesActive Filter AFM Fail 2nd Time8 Flashes4 FlashesPFC Circuit Error	7 Flashes	5 Flashes	Pressure Switch Fail				
8 Flashes3 FlashesActive Filter AFM Fail 2nd Time8 Flashes4 FlashesPFC Circuit Error	7 Flashes	6 Flashes	Compressor Temperature error				
8 Flashes 4 Flashes PFC Circuit Error	8 Flashes	2 Flashes	Active Filter AFM Fail 1st Time				
	8 Flashes	3 Flashes	Active Filter AFM Fail 2nd Time				
Blinking Blinking PCB Failure	8 Flashes	4 Flashes	PFC Circuit Error				
	Blinking	Blinking	PCB Failure				

Wall Mounted Multi Models

Initial Displa	ау		Further Interrogation by Pressing Test Button on Infra Red RC			
Red	Green	Meaning	Red	Green	Meaning	
2 Flashes	Blinks	ID Sensor Failure	Blinks	2 Flashes	ID Air Sensor	
2 Flashes	Blinks	ID Sensor Failure	Blinks	3 Flashes	ID Pipe Sensor	
4 Flashes	Blinks	ID Control Error	Blinks	2 Flashes	Manual Auto Button Error	
4 Flashes	Blinks	ID Control Error	Blinks	4 Flashes	Power Source Failure	
5 Flashes	Blinks	Comms Failure	Blinks	2 Flashes	Reverse Comms Failure	
5 Flashes	Blinks	Comms Failure	Blinks	3 Flashes	Forward Comms Failure	
6 Flashes	Blinks	ID Fan Failure	Blinks	2 Flashes	Motor locked	
6 Flashes	Blinks	ID Fan Failure	Blinks	3 Flashes	Motor RPM Incorrect	
Blinks	2 Flashes	OD Thermistor Fail	2 Flashes	Blinks	OD Discharge Sensor Fail	
Blinks	2 Flashes	OD Thermistor Fail	4 Flashes	Blinks	OD Pipe Sensor Fail	
Blinks	2 Flashes	OD Thermistor Fail	6 Flashes	Blinks	OD Air Sensor Fail	
Blinks	2 Flashes	OD Thermistor Fail	8 Flashes	Blinks	Compressor Temp Sensor Fail	
Blinks	2 Flashes	OD Thermistor Fail	9 Flashes	Blinks	2 Way Valve Sensor Fail	
Blinks	2 Flashes	OD Thermistor Fail	10 Flashes	Blinks	3 Way Valve Sensor Fail	
Blinks	3 Flashes	Pressure Switch	2 Flashes	Blinks	Pressure Switch	
Blinks	4 Flashes	ID Units Incorrect	2 Flashes	Blinks	Incorrect Indoor Unit Index	
Blinks	5 Flashes	Inverter Failure	2 Flashes	Blinks	IPM Failure	
Blinks	5 Flashes	Inverter Failure	5 Flashes	Blinks	Compressor Failure	

25

26

27

28

29

2A

2B

2C

To Interrogate

Turn Unit Off

buttons simultaneously for 3 seconds. To Return to Normal Operation

Set to desired setting (unit or controller)

Press THERMOSENSOR button for 5 seconds to lock Two Handsets/1 Unit – set on RC DIP SWs Single handset DIP SW1 is On & 2 is Off Dual Handset Master Both On & Slave both Off Group Control up to 16 Unit from 1 RC Handset

To Initiate Test Operation

Press Start/Stop to Initiate. **Changing the Sensor Position**

Set DIP SW3 on RC to ON

PFC circuit error

Indoor signal error

Indoor signal error

Indoor heat exchanger temperature error

Power supply frequency detection error

When E:EE is displayed switch unit off and press the temp up and temp down

Compressor temperature error

Four-way valve abnormal

Press Temp Up and Temp Down Buttons together for 3 seconds.

The unit can sense the air temperature at the unit or controller

To change press THERMOSENSOR button for 5 seconds to unlock Toggle the THERMOSENSOR button & controller is displayed

Switch Unit Off & Press Master & Fan Buttons together for 3 seconds.

Outdoor heat exchanger temperature (middle) error

Current Models

Wired Remote Control Models

Code Consists of Indoor Unit Address Followed by the Fault Code

OOID to RC Comms FailO1ID to OD Comms FailO2ID Air Sensor OpenO3ID Air Sensor CloseO4ID Pipe Sensor OpenO5ID Pipe Sensor CloseO6OD Pipe Sensor FailO8Power Source Connection FailureO9Drain Problem Float switch operatedOAOD Air Sensor FailOCDischarge sensor FailOEOutdoor High Pressure Heatsink error11OD PCB Fail12ID Fan Fail13OD Signal Abnormal ID signal error14OD EEPROM Fail15Compressor Temp Failure16Pressure Switch Error17IPM Error18CT Error19Active Filter Module Error1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal24Excessive high pressure protection on cooling	Below. No E	denotes No Fault.
O2ID Air Sensor OpenO3ID Air Sensor CloseO4ID Pipe Sensor OpenO5ID Pipe Sensor CloseO6OD Pipe Sensor FailO8Power Source Connection FailureO9Drain Problem Float switch operatedOAOD Air Sensor FailOCDischarge sensor FailOEOutdoor High Pressure Heatsink error11OD PCB Fail12ID Fan Fail13OD Signal Abnormal ID signal error14OD EEPROM Fail15Compressor Temp Failure16Pressure Switch Error17IPM Error18CT Error19Active Filter Module Error1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	00	ID to RC Comms Fail
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O4ID Pipe Sensor OpenO5ID Pipe Sensor CloseO6OD Pipe Sensor FailO8Power Source Connection FailureO9Drain Problem Float switch operatedOAOD Air Sensor FailOCDischarge sensor FailOEOutdoor High Pressure Heatsink error11OD PCB Fail12ID Fan Fail13OD Signal Abnormal ID signal error14OD EEPROM Fail15Compressor Temp Failure16Pressure Switch Error17IPM Error18CT Error19Active Filter Module Error1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	02	ID Air Sensor Open
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O6OD Pipe Sensor FailO8Power Source Connection FailureO9Drain Problem Float switch operatedOAOD Air Sensor FailOCDischarge sensor FailOEOutdoor High Pressure Heatsink error11OD PCB Fail12ID Fan Fail13OD Signal Abnormal ID signal error14OD EEPROM Fail15Compressor Temp Failure16Pressure Switch Error17IPM Error18CT Error19Active Filter Module Error1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	O4	ID Pipe Sensor Open
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15Compressor Temp Failure16Pressure Switch Error17IPM Error18CT Error19Active Filter Module Error1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	13	OD Signal Abnormal ID signal error
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18CT Error19Active Filter Module Error1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	16	Pressure Switch Error
19Active Filter Module Error1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	17	IPM Error
1ACompressor Failure1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	18	CT Error
1BOD Fan Failure1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	19	Active Filter Module Error
1CInverter to PCB Comms Fail1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	1A	•
1D2 Way Valve sensor Fail1EExpansion Valve Error1FConnection ID Unit Error20Indoor manual switch abnormal	1B	OD Fan Failure
1E Expansion Valve Error 1F Connection ID Unit Error 20 Indoor manual switch abnormal	1C	Inverter to PCB Comms Fail
1F Connection ID Unit Error 20 Indoor manual switch abnormal	1D	2 Way Valve sensor Fail
20 Indoor manual switch abnormal	1E	Expansion Valve Error
	1F	Connection ID Unit Error
24 Excessive high pressure protection on cooling	20	Indoor manual switch abnormal
	24	Excessive high pressure protection on cooling

Outdoor	PCB	Fault	Codes
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Inverter OD PCB I

Pulses 1 2

15

16

Slow Blink

	OD Fan Failure		Set Each ID Unit Rotary SW to Unit Address (0-15) in series					
	Inverter to PCB Comms Fail		Auto Restart on Power Failure					
	2 Way Valve sensor Fail		DIP SW2-3 on ID Unit. Off is autorestart (std)/On is Manual Restart					
	Expansion Valve Error		Auto Changeover					
	Connection ID Unit Error		DIP SW5 on R	C. On is autocl	hangeover (std)/Off is Manual			
	Indoor manual switch abnor			ention on Pov				
	Excessive high pressure prote	ection on cooling	Dip SW6 on R	C. On is Memo	ory/Off is no memory			
oor	PCB Fault Codes							
r OD	Unit PCBs (1 red LED)		Non Inverte	er OD PCBs (2	red LEDs)			
LED			LED 1	LED 2				
	Models 9-30	Models 36-54	Blinks	Blinks	OD PCB Fail			
	Comms Failure	Comms Failure	1 Pulse	Lift	Power Source Failure			
	Disch Sensor Fail	Disch Sensor Fail	2 Pulses	Lift	OD Disch Temp Sensor			
	Pipe Sensor Fail	Pipe Sensor Fail	3 Pulses	Lit	OD Pipe Sensor			
	Air Sensor Fail	Air Sensor Fail	4 Pulses	Lit	OD Air Sensor			
	2 Way Valve Sensor		5 Pulses	Lit	Comms Failure			
	3 Way Valve Sensor		6 Pulses	Lit	Indoor Unit Error			
	Compressor Thermistor	Compressor Thermistor	7 Pulses	Lit	High Discharge Temp			
	Pressure Switch	Heatsink Sensor Fail	8 Pulses	Lit	High Pressure			
	Indoor Comms Error	Pressure Switch	9 Pulses	Lit	Compressor Temp Abnormal			
	Current Trip		10 Pulses	Lit	Compressor Temp Sensor Fail			
	CT Fail							
	Compressor Position Fail	IPM Error						
	Compressor Start Fail	Compressor Position Fail						
	Timer Failure	Compressor Start Fail						

Inverter Multi AOY30

This has 4 LEDs A,B, C & D to denote which circuit has the fault Up to 8 flashes - faults are identical to above 9-30 Single System

OD Upper Fan Fail

OD Lower Fan Fail

Protect Operation

9	Pressure Switch A
10	Pressure Switch B
11	Indoor Unit Indexing Problem
12	IPM Fail
13	Compressor Position Fail
14	Compressor Fail
15	OD Fan Upper Fail
16	OD Fan Lower Fail
17	PCB Fail

Interconnecting Wiring

This has 4 LEDs A,B, C & D to denote which circuit has the fault Up to 8 flashes - faults are identical to above 9-30 Single System

	Live	Neutral	Comms
CO Multis	2	1	3
HP Multis	1	2	3
AOY90T	3	2	1
ALL OTHERS	1 or L	2 or N	3

We recommend external pumps have their own power supply. Taking Power for a pump from the unit is a major source of Errors.

A General Guide

Pipework

- Pipe sizes and lengths should be as the relevant Technical Guide
- Both lines should be insulated
- No line accessories or oil traps should be fitted
- In cooling mode both pipes should be between 0 and 10°C - the suction line should sweat, but not freeze
- In heating moded both pipes should be between 30 and 60°C
- Pipework should be refrigeration quality
- Refrigerant should be R22, unless stated on the outdoor unit
- Look for restrictions. They could cause compressor failures.

Indoor Unit

- Is it level? Have we adequate drainage?
- Smells are always due to site conditions or drains
- Flashing lights? = Fault Diagnostics see over
- When were the filters last cleaned?
- Is the unit too large/small (between 5/20 air circs / hr)
- Is it on Timer/Test Mode

Outdoor Unit

- Discharge temperature should be between 50 & 70°C
- Suction temperature should be between -3 & 4°C
- If fan switches off check for high discharge temperature
- Check Suction Line is sweating problem if not!
- Hot Recip. Compressor = PROBLEM!
- Sweating/Frost on expansion line undercharged







Controller

- EE:EE on LCD handset fault diagnostics – see over
- Is the handset too far away?
- When were the batteries changed last?
- Heat Pump models 7-14 NOT auto changeover
- Timer is one shot, unless it has 'repeat' mode
- With wired handset, check for interference. Cable should be screened
- Is it on Timer/Test Mode

Wiring

- In general interconnecting wiring is 240 Volt, but see chart for details
- With LCD wired handset models, Terminal 3 is the Live Not Terminal 1 NEVER apply mains voltage to Terminal 1 on these models
- With LCD wired handset models wiring should be screened
- Check Voltage drops! Check it isn't down to Earth!
- Has it got a timeclock/BMS interface?
- Interconnecting cables MUST be circular crimped

What the separate wires do in the interconnecting cables

Note – Wires are 240V Live except where marked neutral or Earth or signal. Cables marked Signal are digital pulses and you should not attempt to measure these with a meter.

Wire	Е	Ν	L	1	2	3	4	5	6
ASY7-12A	Earth	Neutral	Comp+Fan	Unused	Unused	Unused	Unused	Unused	Unused
ASY7-12R	Earth	Neutral	Comp	Unused	Unused	Rev Valve	OD Fan	Unused	Unused
ASY13PS	Earth	Neutral	Line to OD	Unused	Unused	Signal	Unused	Unused	Unused
ASY14A & ABY14-24A	Earth	Unused	Unused	Neutral	Comp+Fan	Unused	Unused	Unused	Unused
ASY17-30A	Earth	Unused	Unused	Live to In	Neutral	Comp+Fan	Unused	Unused	Unused
ASY14-17R & ABY14R	Earth	Unused	Unused	Neutral	Comp	Rev Valve	OD Fan	Unused	Unused
ASY20-30R & ABY18-24R	Earth	Unused	Unused	Neutral	Comp	Fan Hi	Rev Valve	Fan Low	Unused
AUY12-18AG	Earth	Unused	Unused	Neutral	Comp	Fan Hi	Fan Low	Unused	Unused
AUY12-18RG	Earth	Unused	Unused	Neutral	Comp	Fan Hi	Rev Valve	Fan Low	Unused
AUY18-54A, ABY30-54A & ARY24-60A	Earth	Unused	Unused	Comp	Neutral	Live to In	Unused	Unused	Unused
AUY18-54R, ABY30-54R & ARY24-60R	Earth	Unused	Unused	Signal	Neutral	Live to In	Unused	Unused	Unused

Technical Support:

08705 218218

Current Models

Wired Controllers – Fault diagnostics

A Fault Condition is signalled by EE:EE appearing on the LCD panel. The unit should be interrogated by switching it off on the handset then pressing either the down arrows on the SET TIME and TEMP/DAY buttons together for 3 seconds for 7 day models or the ENERGY SAVE & ZONE CONTROL buttons for other models. The Failure code is in 2 parts – Fault and Address. The Fault Code is an E code. The second is the unit address for multi linked systems – with single units this is always 00. 7 day models have the fault code as shown in the table below above the address. Other models have the codes below, minus the 0, followed by the address – e.g. E9:00 denoting Float Switch on Unit 0.



Outdoor Unit with

A fault condition is signified by flashing red LED's on the the outdoor PCB if it is equipped with one. Except for multisplits and 2 LED models, the diagnostics are shown in the table on the right. For 2 LED models flashing signifies sensor failure and constantly lit indicates high discharge temperature.

Wireless Remote Control Models – Diagnostics

Code	Fault	Diagnosis
E:0	I/U - R/C Comms	Check R/C wiring. Interference?
E:01	I/U - O/U Comms	Check intercon. wiring. Interference
E:02	Room Sensor Open	Sensor Missing
E:03	Room Sensor Short	Sensor Faulty
E:04	I/U Pipe Sensor Open	Sensor Missing
E:05	I/U Pipe Sensor Short	Sensor Faulty
E:06	O/U Pipe Sensor Open	Sensor Missing
E:07	O/U Pipe Sensor Short	Sensor Faulty
E:08	Power Source Error	Incorrect Power Supply
E:09	Float Switch	Check Drains - High Water Level
E:0A	O/U Air Sensor Open	Sensor Missing
E:0C	Disch Sensor Open	Sensor Missing
E:0D	Disch Sensor Short	Sensor Faulty
E:0F	High Disch Temp	Contamination In Pipework/ Gas Shortage
E:11	Model Abnormal	Check PCB compatability
E:12	Indoor Fan Failure	Check Fan and Motor
E:13	O/D Signal Abnormal	Communications?
E:14	Outdoor PCB Fail	PCB Failure

Fault	LED1	LED2	LED3	LED4	LED5	LED6
Signal Failure				Flash		
Indoor Unit Failure				Flash		
Discharge Sensor Fail						Flash
O/D Pipe Sensor Fail					Flash	Flash
O/D Air Sensor Fail			Flash		Flash	
Power Source Error		Flash				
PCB		Flash	Flash	Flash	Flash	Flash
PCB Failure		All I	lashing	Very Rap	idly	
High Pressure Trip	Flash					
Discharge Temp Trip		Flash				

Unit	Code Means:-	Red	Green	Yellow
All	Power On	On	Off	Off
All	Timer Mode	On	On	Off
All	Louvre On	On	On or Off	On
All	HP Defrost Cont.	Long pulses	Off	Off
All	Test	Cont. Pulse	Cont. Pulse	Off
D,E,F	Power Fail	On	Cont Long	Pulses Off
All	PCB Failure	Cont. Short Pulse	Cont. Short Pulse	Off
G	Room Sensor Fault	1 Short Pulse	Rapid Pulse	Off
A,B,G	Sensor Fault	2 Short Pulses	Rapid Pulse	Off
D,E,F	Room Sensor Open/Fail	2 Short Pulses	Rapid Pulse	Off
E,F	Room Sensor Short	2 Short Pulses	Rapid Pulse	Rapid Pulse
С	Room Sensor Fault	3 Short Pulses	Long Pulse	Off
D,E,F	Pipe Sensor Open	3 Short Pulses	Rapid Pulse	Off
E,F	Pipe Sensor Short	3 Short Pulses	Rapid Pulse	Rapid Pulse
D,E,F	High Water	4 Short Pulses	Rapid Pulse	Off
F	Comms Failure	5 Short Pulses	Rapid Pulse	Off
G	High Water	6 Short Pulses	Rapid Pulse	Off
B,E,F	Fan Failure	6 Short Pulses	Rapid Pulse	Off
F	3ph Reversal	Rapid Pulse	2 Short Pulses	Off
С	Pipe Sensor Fault	Long Pulse	3 Short Pulses	Off
FOD	Pipe Sensor Open	Rapid Pulse	3 Short Pulses	Off
FOD	Pipe Sensor Short	Rapid Pulse	3 Short Pulses	Rapid Pulse
FOD	Temp Sensor Open	Rapid Pulse	4 Short	Pulses Off
FOD	Temp Sensor Short	Rapid Pulse	4 Short Pulses	Rapid Pulse
F	Discharge Sensor Open	Rapid Pulse	5 Short Pulses	Off
F	Discharge Sensor Short	Rapid Pulse	5 Short Pulses	Rapid Pulse
F	High/Low Pressure	Rapid Pulse	6 Short Pulses	Off
F	High Discharge Temp	Rapid Pulse 7	Short Pulses	Off

Sensor Resistances – Use to Check Thermistors across the range

At 10°C	At 20°C	At 30°C
20K Ohms	13K Ohms	8K Ohms
103K Ohms	63K Ohms	40K Ohms
10K Ohms	6K Ohms	4K Ohms
646K Ohms	395K Ohms	250K Ohms
	20K Ohms 103K Ohms 10K Ohms	20K Ohms13K Ohms103K Ohms63K Ohms10K Ohms6K Ohms