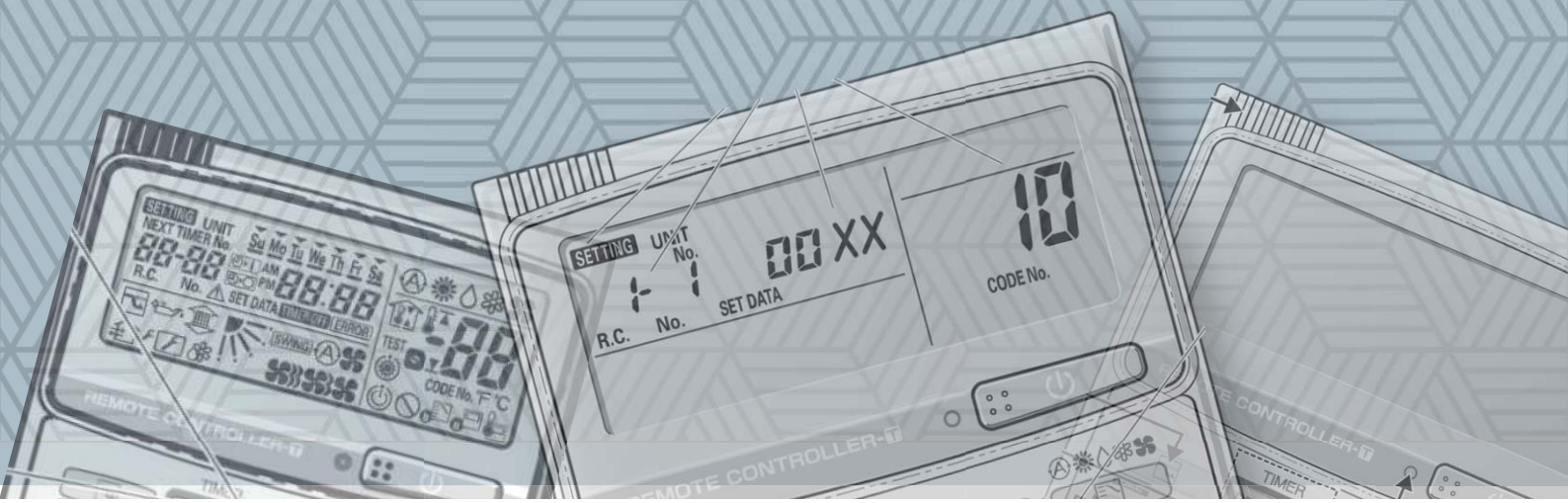
Panasonic

PANASONIC

FAULT CODE GUIDE

ECOi – ECO-G - PACi



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INDEX

GHP ENGINE ISSUES

A01	GHP - Engine oil pressure fault
A02	GHP - Engine oil level fault
A03	GHP - Engine over speed
A04	GHP - Engine under speed
A05	GHP - Ignition power supply failure
A06	GHP - Engine start up failure
A07	GHP - Fuel gas valve failure
A08	GHP - Engine stalled
A09	GHP - Engine overload
A10	GHP - High exhaust gas temp
A11	GHP - Engine oil level failure
A12	GHP - Throttle actuator fault
A13	GHP - Fuel gas valve adjustment failure
A14	GHP - Engine oil pressure sensor fault
A15	GHP - Starter power output short circuit
A16	GHP - Starter motor locked
A17	GHP - Starter current (CT) coil failed
A19	GHP - Wax Valve (3 Way) fault
A20	GHP - Cooling water temp high
A21	GHP - Cooling water level fault
A22	GHP - Cooling water pump fault
A23	GHP - Engine crank angle sensor failure
A24	GHP - Engine cam angle sensor failure
A25	GHP - Clutch fault
A26	GHP - Misfire
A27	GHP - Catalyst temperature fault
A28	GHP - Generator fault
A29	GHP - Converter fault
A30	GHP - Fuel gas pressure low

CENTRAL CONTROLLER ISSUES

C01	Duplicated setting of control address
C02	Central control number of units mis-matched
C03	Incorrect wiring of central control
C04	Incorrect connection of central control
C05	System Controller fault, error in transmitting comms signal, i/door or o/door unit not working, wiring fault
C06	System Controller fault, error in receiving comms signal, i/door or o/door unit not working, wiring fault, CN1 not connected correctly
C12	Batch alarm by local controller
C16	Transmission error from adaptor to unit
C17	Reception error to adaptor from unit
C18	Duplicate central address in adaptor
C19	Duplicate adaptor address
C20	Mix of PAC & GHP type units on adaptor
C21	Memory fault in adaptor
C22	Incorrect address setting in adaptor
C23	Host terminal software failure
C24	Host terminal hardware failure
C25	Host terminal processing failure
C26	Host terminal communication failure
C28	Reception error of S-DDC from host terminal
C29	Initialization failure of S-DDC
C31	Configuration change detected by adaptor

ADDRESSING & COMMUNICATION PROBLEMS

E01	Remote control detecting error from indoor unit, Address not set/Auto address failed. Check interconnecting wiring etc. Re-address system.
E02	Remote detecting error from indoor unit,
E03	Indoor unit detecting error from remote,
E04	Indoor seeing error from outdoor. Qty of i/d units connected are less than qty set. Check; all i/d units are ON, reset turn off all units wait 5min power up
E05	Indoor unit detecting error from outdoor unit, Error in sending comms signal
E06	Outdoor unit detecting error from indoor unit, Error in receiving comms signal
E07	Outdoor unit detecting error from indoor unit, Error in sending comms signal
E08	Incorrect setting indoor/controller, Indoor address duplicated
E09	Incorrect setting indoor/controller, Remote address duplicated or IR wireless controller not disabled
E10	Indoor unit detecting error from 'option' plug, Error in sending comms signal
E11	Indoor unit detecting error from 'option' plug, Error in receiving comms signal
E12	Auto addressing failed, Auto address connector CN100 shorted during auto addressing
E13	Indoor unit failed to send signal to remote controller
E14	Setting Failure, Duplication of master indoor units
E15	Auto addressing failed, Number of indoor units connected are less than number set
E16	Auto addressing failed, Number of indoor units connected are more than number set
E17	Group control wiring error, Main indoor unit not sending signal for sub indoor units
E18	Group control wiring error, Main indoor unit not receiving signal for sub indoor units
E20	Auto addressing failed, No indoor units connected
E24	Auto addressing failed, Error on sub outdoor unit
E25	Auto addressing failed, Error on outdoor unit address setting
E26	Auto addressing failed, Quantity of main and sub outdoor units do not correspond to the number set on main outdoor unit P.C.B.
E29	Auto addressing failed, Sub outdoor unit not receiving comms for main outdoor unit
E31	Between units, Comms failure with MDC, does E31 remain after power is re-Instated? If so replace PCB. & power PCB

SENSOR FAULTS

F01	Indoor Heat Exch inlet temp sensor failure (E1)
F02	Indoor Heat Exch freeze temp sensor failure (E2)
F03	Indoor Heat Exch outlet temp sensor failure (E3)
F04	Outdoor Discharge temp sensor failure (TD) or (DISCH1)
F05	Outdoor Discharge temp sensor failure (DISCH2)
F06	Outdoor Heat Exch temp sensor failure (C1) or (EXG1)
F07	Outdoor Heat Exch temp sensor failure (C2) or (EXL1)
F08	Outdoor Air temp sensor failure (TO)
F10	Indoor inlet temp sensor failure
F11	Indoor outlet temp sensor failure
F12	Outdoor Intake sensor failure (TS)
F13	GHP - Cooling water temperature sensor failure
F16	Outdoor High pressure sensor failure
F17	GHP - Cooling water temperature sensor fault
F18	GHP - Exhaust gas temperature sensor fault
F20	GHP Clutch coil temperature fault
F23	Outdoor Heat Exch temp sensor failure (EXG2)
F24	Outdoor Heat Exch temp sensor failure (EXL2)
F29	Indoor EEPROM error
F30	Clock Function (RTC) fault
F31	Outdoor EEPROM error

COMPRESSOR ISSUES

H01	Compressor Fault, Over current (Comp1)
H02	Compressor Fault, Locked rota current detected (Comp1)
H03	Compressor Fault, No current detected (Comp1)
H05	Compressor Fault, Discharge temp not detected (Comp1)
H06	Compressor Fault, Low Pressure trip
H07	Compressor Fault, Low oil level
H08	Compressor Fault, Oil sensor Fault (Comp1)
H11	Compressor Fault, Over current (Comp2)
H12	Compressor Fault, Locked rota current detected (Comp2)
H13	Compressor Fault, No current detected (Comp2)
H15	Compressor Fault, Discharge temp not detected (Comp2)
H27	Compressor Fault, Oil sensor fault (Comp2)
H28	Compressor Fault. Oil sensor (connection failure)
H31	Compressor Fault. IPM trip (IMP current on temperature)

INCORRECT SETTINGS

L01	Setting Error, Indoor unit group setting error
L02	Setting Error, Indoor/outdoor unit type/model miss-matched
L03	Duplication of main indoor unit address in group control
L04	Duplication of outdoor unit system address
L05	2 or more controllers have been set as 'priority' in one system - shown on controllers set as 'priority'
L06	2 or more controllers have been set as 'priority' in one system - shown on controllers not set as 'priority'
L07	Group wiring connected on and indvidual indoor unit
L08	Indoor unit address/group not set
L09	Indoor unit capacity code not set
L10	Outdoor unit capacity code not set
L11	Group contol wiring incorrect
L13	Indoor unit type setting error, capacity
L15	Indoor unit paring fault
L16	Water heat exch unit setting failure
L17	Miss-match of outdoor unit with different refrigerant
L18	4-way valve failure
L19	Water heat exch unit duplicated address
L21	Gas type setup failure

INDOOR UNIT PROBLEMS

P01	Indoor unit fault, Fan motor thermal overload
P02	Outdoor unit fault, Compressor motor thermal overload, over or under voltage
P03	Outdoor unit fault, Compressor discharge temperature too high (Comp1) over 111 degC. Low on ref gas, exp valve, pipework damage.
P04	Outdoor unit fault, High pressure trip
P05	Outdoor unit fault, Open phase on power supply. Check power on each phase, inverter pcb, control pcb
P09	Indoor unit fault, Ceiling panel incorrectly wired
P10	Indoor unit fault, Condensate float switch opened
P11	GHP - Water Heat exch low temp (frost protection) fault
P12	Indoor unit fault, Fan DC motor fault
P14	Input from leak detector (If fitted)
P15	Refrigerant loss, high discharge temp and EEV wide open and low compressor current draw.
P16	Outdoor unit fault, Open phase on compressor power supply
P17	Outdoor unit fault, Compressor discharge temperature too high (Comp2) over 111 degC. Low on ref gas, exp valve, pipework damage.
P18	Outdoor unit fault, By-pass valve failure
P19	Outdoor unit fault, 4 way valve failure, i/door temp rises in cooling or fulls in heating. Check wiring, coil, pcb output, valave operation.
P20	Ref gas, high temp/pressure fault, heat exch temp high C2, 55-60 degC, cooling over-load, sensor fault.
P22	Outdoor unit fan motor fault, fan blade jammed, check connections, does fan turn freely, motor resistance 30-40ohm on each pair, no fan fault, yes pcb fault.
P26	Outdoor unit fault, Compressor overcurrent - check winding resistance, Inverter failure - check internal resistance term HIC + & - to UVW 200-300Kohm or more
P29	Outdoor unit fault, Inverter circuit fault - Motor-current Detection Circuit (MDC) fault, check comp windings, sen- sors C1 & TS, if ok possible pcb failure.
P30	Indoor unit fault, System controller detected fault on sub indoor unit
P31	Simultaneous operation multi control fault, Group controller fault

NOTES

Panasonic Heating and Cooling Systems

Panasonic Appliances Air Conditioning Europe (PAPAEU)
Panasonic UK, a branch of Panasonic Marketing Europe GmbH
Panasonic House, Willoughby Road
Bracknell, Berks, RG12 8FP
United Kingdom
Office: +44 (0) 1344 853 3393
Fax: +44 (0) 1344 85 3021
Web: www.aircon.panasonic.co.uk

Panasonic PRO Club

The Panasonic PRO Club is Panasonic's dedicated professional heating and cooling website. Signup at www.panasonicproclub.com for access to a wealth of information, tools service manuals and more.

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Rating Conditions

The cooling and heating capacities are based on the following conditions: Cooling: Indoor temperature 27˚C DB/19˚C WB, Outdoor temperature 35˚C DB/24˚ C WB. Heating: Indoor temperature 20˚C DB, Outdoor Temperature 7˚C DB 6˚C WB.

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