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Spa & Hot Tub Topside Touchpad Error Messages & Fault Codes

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The spa/hot tub messages and codes listed here are a combination of error or fault codes, operational and reminder messages for ALL (that we've managed to source) brands of spa equipment from around the world, from the late 1980's to Present.

It includes brands manufactured in USA, Canada, UK, Italy, Australia, and China, including inflatable spas, portable spas and in-ground spa control systems.

Many have been used on spas sold or imported into Australia, but many others have only been used in Europe or North America. There is still a very large number of unknown Chinese spa systems we are yet to identify and acquire manuals and codes for.

Along-side each code is a brief description of its meaning.

Under no circumstances should you use this information to attempt a repair unless properly qualified to do so. We have provided this information as a reference, and for qualified tradesmen to utilise as required.

Spa / Hot Tub technicians – we can provide access to **full diagnostic manuals** covering these messages & error codes for many of the brands listed, via an app direct to your Android, iPhone, or Windows phone. Please 'create an account' on our website and follow instructions listed in the 'Trade Pages' category. Alternatively we can email them to you on request (This feature and access is only available to spa technicians).

Causes of the most common following spa / hot tub error fault codes

Flow/Pressure switch open – dirty filters, blockages, switch failure, low water level, pump failure. Flow/Pressure switch closed – switch failure, pump PCB relay stuck closed Hi-Limit fault – dirty filters, blockage, low flow, sensor fault, failed pump – sensor reads 45C+ / 112F+

Temperature sensor fault – sensor failed, low flow, incorrectly positioned sensor Over heat fault – Same as sensor fault, pump not running, relay failed – sensor reads 38-45C / 100-112F

Spa/Hot Tub topside touchpad messages and codes are listed for various models including but not limited to the following brands:











































































































Spa-Tech



SPA-N-A-BOX





















Gecko Aeware topside touchpad error codes & messages

in.xe and in.y series

If the code is a 'Slave' code, it's a fault with the slave unit - same error cause as the main unit

AOH or AO2 (swim spa slave)
Prr / Pr or Pr2 (swim spa slave)
OH or OH2 (swim spa slave)

FLO / CFLO or FL2 (swim spa slave)

HL or HL2 (swim spa slave)
Hr or Hr2 (swim spa slave)
HR or HR2 (swim spa slave)

Lxx / LLxx UPL / BL

Er1 (swim spa)
SLA (swim spa)
LLxx (swim spa)
LLEr (swim spa)

StbY
OFF
Fx, FFxx
FSxx
Fdxx, dx
EP 0 or 1
ESxx
Edxx
Edxx
EExx

Comm Supp HIBr / HiBr LoBr / NoBr Spa pack temperature too high Temperature sensor failure

Over heat 43c Flow error Hi-limit 48c

Internal hardware error - Thermal Fuse Internal hardware error - Stuck relay

Low level software setting No low level software loaded

Communication between Master & Slave failure Main touchpad has been connected to the slave unit

Unable to select LL program – reverts to menu – faulty Slave LL program is not a swim spa config & slave unit detected

Standby mode 30 min all outputs off

Filter cycle frequency per day

Filter cycle start time
Filter duration in hours
Economy mode on/off
Economy mode start time
Economy mode duration in hrs
Economy mode end time
Economy mode set

Stuck relay

Verify cable connections Connect power to 240v Add fresh water Add BromiCharge

in.xm

SP-br

brxx

Econ rLY

SP-Ot SP-OH SP-Hr SP-in SP-Fx rH-Hr rH-HL rH-nF rH-Pr rH-nC rH-nH rH-Id Px-Er CP-Er bL-Er Fn-Fr Sc-Er LLxx Ph-xP

--- (after initial priming)

Incorrect input current set
Spa pack under spa too hot
Over heat – water temp 48c
Internal hardware error
Input voltage too low
Fuse 1-3 blown

Hardware error in in.therm heater

Hi-limit circuit tripped No flow detected

Regulation temperature sensor failed Communication error - heater to pack Not heating – no temp increase detected No match between heater and pack models No detection of Pump current draw P1-5-Er No detection of current change on circ pump No detection of current change on blower No detection of current change on fan

System learning error Low level software setting

Incoming power – number of phases 1-3

Input current setting

Possible broken or bent heater sensor pin(s)

in.xm2

rH-Id Hr HR HL OH rH-nC Pr-r / Pr AO-H SP-in FL-O / CF

FL-O / CFLO FL-C Fx Sc-Er Fr-Er Sc bL P9 UP-Ld UPL / BL Comm

Supp

HIBr / HiBr

LoBr / NoBr

No match between heater and pack models Hardware error detected - thermal fuse Hardware error detected – stuck relay

Hi-Limit circuit tripped 50c Overheat. Water temp at 44.5c Communication error – heater to pack

Temperature sensor failed Spa pack under spa too hot Input voltage too low No flow detected Flow switch closed Fuse blown F1-3

Scan error detected / system learning error Input power frequency 50/60hz out of range

System scanning – 1st power up No firmware downloaded into system Programming firmware into system No valid low level software uploaded No valid low level software uploaded

Verify cable connections Connect power to 240v Add fresh water Add BromiCharge





ACC topside touchpad error codes & messages

OH HLEr SEoP SESH PSoC

CoLd

PSoL PSoH CboH ToE

CLDN ECL CHCL UTO PUF

MENU CANC SEND

CALB FPx (1-4) SIL

FPxd (1-4) SILd Temperature approaching zero

Over Heat condition

Hi-limit over heat sensor failure Temperature sensor open circuit Temperature sensor short circuit

Pressure switch open circuit with circ pump Pressure switch open with low spd pump Pressure switch open with high speed pump

Control box over heat 115f / 46c Time out error – system shutdown

Cool down cycle
Energy saving cycle
Air blower Channel clear

User time out Post use filtration Menu access

Cancel/discard changes

Save changes Calibration for temp Filtration period

Silence period start time

Filter duration

Silence timer duration



Arcadia A-tech topside touchpad error codes & messages

Water tap icon crossed out

Bell icon & HEAT Bell icon & ICE

ICE

Bell icon & LD F Bell icon & LEAK

CLDF FHL RPH RSA RCL

RT9 RDR RCO

RTR

Low water level detected Water temperature above 45c Water temperature below 5c

Winter mode Load failure

Faulty wiring detected

Low flow

Temperature difference over 5c - low flow

Reminder – test pH Reminder – sanitise spa Reminder – clean the filter

Reminder – test RCD safety switch

Reminder – drain / refill Reminder – clean spa cover

Reminder – treat / clean spa cabinet



Arctic Spas topside touchpad error codes & messages

HL (flashing)

HL (solid) FLO

FLC

FrEEzE ProtEct (scrolling)

dEcL GF LocP LocF tSt HPt Hd pH

Spa light flashing

Temperature probe failure or disconnected

Over temperature 44.5 degrees

High Limit 48 degrees Flow switch open circuit Flow switch closed circuit

Heater barrel rate of heating is too fast

Water temp below 10 degrees – freeze protection mode

Circuit breaker setting overload error

Ground/Earth Fault
Partial touchpad lock
Full touchpad lock

System testing hi-limit probe on start up Heater probe test failed – re-attach to heater

Hi Limit probe disconected pH error – pH above 8.2 Damaged PCB processor Error code/condition present



Astrel Modo topside touchpad error codes & messages

FLC Pressure / Flux Switch Closed **FLO** Pressure / Flux switch Open Ho Over Temperature 44C HoH High Limit 55C Low water level H20 **HPF** Hi Limit sensor failure rPF Temperature sensor failure Ferr System error Fus1 Fuse 1 failure Fus2 Fuse 2 failure Fus3 Fuse 3 failure



Balboa topside touchpad error codes & messages

M7 messages

--- or ---- F, -- C, or --

BUF

CFE or CONFIG ERROR CrC or CHKSUM FAIL

dr, HEATER MAY BE DRY WILL RETEST SHORTLY

drn, DRAINING

drY, dY, HEATER DRY SERVICE REQD

Ecn, Ec

gFI, GFCI FAILURE

HFL, HL, HTR FLOW LOW

Hot, HOT-CALL SVC

ICE, IC, 1C, FREEZE COND

LF. LOW FLOW

OHH, HH, HTR TEMP LMT SERVICE REQD

OHS, OH, SPA TEMP LMT PHH, PH IS HIGH LOWER PH PHL, PH IS LOW RAISE PH Pr, PRIMING MODE TAKES 4 MIN

PSt, PERSIST FAIL

rt9, TEST GFCI

rCA, CHANGE MINERAL CARTRIDGE

rCH, NEW FILTER rCL, CLEAN FILTER rCO, CLEAN COVER rdr, DRAIN WATER rPH, CHECK PH rSA, CK SANITIZER rtC, RTC FAILURE rtr, TREAT WOOD SAH, SANITIZER HIGH

SAL, SANITIZER LOW

Sanitiser level is high Sanitiser level is low

Temperature not available

Temperature not available - priming

Internal problem detected

Configuration error

Firmware installation failure

Possible inadequate water detected Indicating pump is on while draining

Inadequate water detected

Economy mode set Spa could not trip RCD

Substantial difference between sensors

Possible pump stuck on

Potential freeze condition – pumps run

Persistent low flow problem Overheat - spa shut down Overheat - spa shut down

pH is high pH is low

Initial priming mode active

Hardware failure Reminder - test RCD

Reminder - change Nature 2 cartridge

Reminder – replace filter Reminder - clean filter Reminder - clean spa cover Reminder - drain & refill spa

Reminder – test/adjust chemical levels Reminder – test/adjust sanitiser levels

Hardware Failure

Reminder - wood retreatment required

SbY, Sy, STANDBY MODE SE, STANDARD ECONOMY SF, SAFETY FAULT SLP, SL SnA, SA, SENSOR A SERVICE REQD Snb, Sb, SENSOR B SERVICE REQD SnS, Sn Std, St, STANDARD StU, STUCK ON

Spa is in 'standby' mode
Spa is in 'Standard-Economy' mode
Suction protection fault
Spa is in 'sleep' mode
Sensor A not working
Sensor B not working
Sensors out of balance
Spa is in 'standard' mode
Pump appears to be stuck on

Non M7 messages (older controllers with pressure switch)

pd
OH
Flo, Fl
Cool
ICE, IC
Sn1, Sn
Sn3, Sn
ILOC
Ec, Econ
Std, St
Sl, Slp

Power down, on battery back up Overheat Flow problem Spa is 11 degrees below set point Possible freeze condition Hi-limit fault Temperature sensor fault Interlock fault Spa is in 'economy' mode Spa is in 'standard' mode Spa is in 'sleep' mode

Flashing LED messages - Balboa

1 flash, 3 second gap
2 flashes, 3 second gap
3 flashes, 3 second gap
4 flashes, 3 second gap
Flash – 1 second on, 1 second off
Flash – briefly OFF once per second
Flash – briefly ON once per second

Hi-limit fault
Pressure switch closed (FLC)
Pressure switch open (FLO)
Temperature sensor fault
Hi-limit, OH
Sensor fault
Pressure switch fault



onga (Balboa) topside touchpad error codes & messages

Onga 4352, 4353, 4395

LED 1 flash per second LED 3 flashes per second Pressure switch open circuit, insufficient flow Temperature sensor or pcb fault

Director & Turbo series

LED slow green (2-3 sec interval) LED fast green (1 sec interval) LED slow red LED fast red Initial prime fail, pressure switch open cct Pressure switch open beyond initial start Temperature sensor failed Hi-limit over temperature cut out

Bathmaster Series

LED red / green flashing 'Power' indicator LED orange flashing 'Jets / Pump' indicator LED red flashing – 3 flashes Low or high voltage condition Loss of prime. Pressure switch open PCB fault



Bestway Lay-Z-Spa topside touchpad error codes & messages

GCF Not grounded/earthed correctly

-.-. and RED heater light Over temp condition

-.-- and GREEN heater light Water temperature detected below 4 degrees C
All lights flash Safety circuit operation – 'Test' button pressed

E01 (some models) System error

E01 Flow sensor closed circuit
E02 Flow sensor open circuit

E03 Water temperature below 4 degrees C
E04 Water temperature over 50 degrees

E05 Thermometer sensor fault E06 Power supply fault

E08 Manual reset thermal cut out fault

E09 104C Fuse Fault
E10 High salt level alarm
E11 Low salt level alarm

E12 Water leak inside the pump

E13 Signal line disconnected between touchpad and PCB End System stops after 72 hrs operation. Press 'Unlock' 3 secs



Brett Aqualine topside touchpad error codes & messages

BL-46 / BL-70 / BL-80

OH Over temperature

Fr Freeze condition detected 4 degrees

FL / FLo

Pressure switch open circuit

Temperature sensor short circuit

Temperature sensor open circuit

Temperature sensor open circuit

Hi-limit sensor short circuit

Hi-limit sensor open circuit

Flow switch short circuit

Improper electrical connection

c Filter cycle in operation

diS / time remaining alternating Disable / standby mode and time remaining

BL-45 / BL-50 / BL-60

All LED's Flashing 48 degrees Overtemp
Orange 98 & Red 104 Low Flow error

Red 102 & Red 104

Orange 100 & Red 104

Temperature Sensor fault
Hi-Limit Sensor fault

Other models

PCB LED flashes 1 time ever 3 seconds High Limit condition

PCB LED flashes 2 times every 3 seconds Pressure switch closed condition



Caldera Spas topside touchpad error codes & messages

'TEMP' flashing ____ flashing _._._ or =:=:= ____ or **===**

Pressure switch or temperature sensor failed Hi limit tripped Pressure switch open circuit Pressure switch closed circuit (jets operate)



Coates heater error codes & messages

Err Temperature sensor fault



Comfort Line Products CLP topside touchpad error codes & messages

EN1/OH EN₂

Sensor 1 failure Sensor 2 failure



Correct-Tech CTI topside touchpad error codes & messages

th1/39 or ---/39 th2 / 39 or - - - / 39

th2 / "current water temp" or - - - / "current water temp"

OH or HOT

HL

HL / 210

FLO or --

FLC or --

Freeze protection - temp under 39F / 4C Both thermistors detecting below 39F / 4C

Temperature sensor error Over heat 112 F / 44C Hi-limit 118 F / 47C

Thermistor short circuit Electronic failure of touchpad or pcb

Flow switch open circuit

Flow switch



Davey Spa-Quip topside touchpad error codes & messages

Pulsar, 2095 & Intuitive Series

Red/green flashing on two LED's Green, Green, or Orange flashing LED Red/green flashing pump LED

Hi-limit sensor tripped, electronic fault Insufficient water detected Insufficient water detected (some models only)

Digital 2000 (stainless steel heater tube with pressure switch)

01	Stuck touchpad button
02	Touchpad Communication error
03	Temperature sensor failure mk2 sensor
04	Pressure switch closed circuit
05	Over temperature condition
06	Heater thermal cut-out overheat
07	Stuck heater relay
08	Temperature sensor failure mk1 sensor
09	Prime failed, pressure switch open circuit

Spa Power 1000 & 2000

01	Stuck touchpad button
02	Touchpad communication error
03	Temperature sensor failure
04	Optical water sensor failure
05	Over temperature condition detected
06	Heater thermal cut-out overheat
07	Stuck heater relay
09	Prime failed, insufficient water detected

Spa Power 400, 500, 600, 601, 750, 800, 1200

Xcelsior Spa Pool System QX350

Error 1 (H2O/CHE)

Error 3

Error 5

Error 6

Error 7

Error 7

Error 8

Prime failed, insufficient or 'too pure' water Stuck touchpad button

Over temperature condition detected 45c

Pump heater thermal cut out overheat

Stuck heater relay

Temperature sensor failure

Error 8 Temperature sensor failure Error 9 Heater control circuit failure

SPSVB Variable Speed Blower

Error 2 (2 LED flashes / beep)

Communication or electronic failure
Error 3 (3 LED flashes / beep)

Stuck touchpad button



FLUID DYNAMICS

Elecro Optima Compact & Titan Optima Tecnologic Z31SE thermostat error codes & messages

noFNo flow – flow switch openE1Temperature probe Open circuitEPrEEPROM memory error



Ethink topside touchpad error codes & messages

KL6600 and KL8000 series

ESA Temperature sensor error
ESb Water flow sensor error
Water flow sensor error

EHH Heater error over heat 48 degrees
EoH Heater error over heat 43.5 degrees

EPL Water flow error
ECP Water flow error

EUH High input voltage 280v Elo High input voltage 260v Lamp current over limit

CPo Circulation pump current over limit LLL

Low water level

Freeze warning – below 44F / 7C **ICE** Eln Auto moisturizing overtime InF

System is refilling Water refilling Paused

Auto drainage process is running out

Ethink KL8-2 and KL8-3 series

E1 Temperature sensor open / short circuit

Flow sensor open circuit E2

EP Low flow through Ethink heater

FF Over temperature fault



InP

Fasco pump motor error codes & messages

imPower Lockout Codes (on numerous variable speed pool pumps)

Eeprom load failure None 1 blink Micro processor failure 2 blinks Under voltage below 180v AC

3 blinks Temperature - over 100C or under -20C

Over current tripped 4 blinks

Over voltage above 269v AC 5 blinks

6 blinks Shaft seized

7 blinks Self check - self testing failed Motor fault - phase disconnected 8 blinks

10 blinks Other fault



Gao Er Da - GD topside touchpad error codes & messages

ICE **CLDF** LD F E1, FF Water pump or tap ICON flashing

Thermometer ICON flashing

CALB S.C.

HEAT

Hi-limit over 45c Water temperature below 5c Circulation pump problem / flow problem

Load Failure - faulty pump, heater, etc Temperature sensor failure

Water level too low

Low flow

Temperature calibration mode

System wiring fault





Imperial Spas

Swift River Spas

Gatsby topside touchpad error codes & messages

dCP FC FLO Ht

HtS HtS-OHt OHt

tS-0-tS tS-255-Ht-OHt

PS1 PS2 No DC power at master relay

Freeze condition under 15 degrees C

No circ pump current draw

Over 43 degrees C
Open hi-limit sensor
Short hi-limit sensor
Overheat 48 degrees C
Open temp sensor
Short temp sensor

Pressure switch closed Pressure switch open





Class Series

Gecko topside touchpad error codes & messages

FLO

FLC Err

Prr

HL

⊢r⊨

* * * 3 flashing dots on display

* * * with red LED lit on pcb

0.0 / 32F H2O BOO CLE, CF SbY LOC

LOC LocP / LoP LocF / LoF Fxx, Fdxx dxx, Fdxx, Fsxx

Pxx Exx, Edxx Edxx, Esxx Orxx (2.5-9)

CAL SUS

Flow / pressure switch open circuit Flow / pressure switch closed circuit

Electronic software error Regulation temp sensor failure Hi-limit sensor failure

Hi-limit sensor failure Possible freeze condition

FLO or FLC

Hi-limit sensor failure

Regulation temp sensor failure

Insufficient water level Pump 1 boost mode Reminder – clean filter

Spa is in 'standby'mode - 1hr shutdown

Touchpad panel keys locked Touchpad partial lock Touchpad full lock

Filter cycle duration in hours
Filter cycle start delay in hours
Purge cycle duration in hours
Economy cycle duration in hours
Economy cycle start delay in hours

Over range beyond normal temp limit (not a fault)

Calibration error

Suspend mode – Pump 2 Button may be stuck Dimension One Spas Communication Error



Hercules topside touchpad error codes & messages

OH **FLO ICE** SN1

SN₂

Over temperature condition detected Flow problem Freeze condition detected Hi-limit sensor failure Temperature sensor failure





Hot Spring Spas & Tiger River Spas topside touchpad error codes & messages

'Ready' & 'Power' Logo lights flashing 'Power' blue light flashing 'Ready' green light flashing

Pressure switch open circuit Hi limit fault Temperature sensor fault



Hot Spot Spas & Solana Spas topside touchpad error codes & messages

'Ready' icon flashing

____ & power icon flashing

=:=:=:=

= = = & power & ready icons flashing

----- & power & ready icon flashing

Control sensor open or short circuit Hi limit (nothing operates) Pressure switch open circuit Pressure switch open circuit Pressure switch closed circuit Pressure switch closed circuit



Hurlcon Astral topside touchpad error codes & messages

F0 Open circuit thermistor or 0c detected
F1 Thermostat reading 45c overheat
F2 Mechanical Hi-limit 45c
F3 Thermistor fault
F4 Flame Rollout detected
L Heater locked out 2 minutes

Hurricane topside touchpad error codes & messages

PS Pressure switch failure SH Shorted sensor OP or OS Open sensor LO Low temp, potential freeze HL Hi-limit OH Overheat **FLO** Flow problem **ICE** Freeze condition detected SN1 Hi-limit sensor failure SN₂ Temperature sensor failure

HYDROQUIP

Hydroquip topside touchpad error codes & messages

FLO Flow / pressure switch open circuit **FLC** Flow / pressure switch closed circuit HL, PrH Hi-limit, OH sensor failure Prr Regulation temp sensor failure **FrEE** Possible freeze condition Touchpad key lock Loc Current time of day CL **Econ** Economy mode on **ECdu** Economy cycle duration Flon Filter cycle turn on Filter cycle duration in hours * * * 3 flashing dots on display FLO, or FLC * * * with red LED on pcb Hi-Limit

0.0 / 32F Regulation temp sensor failure



Infinity Megastore topside touchpad error codes & messages

COOL FREEZING ERR Anti freezing mode – power off Anti freezing mode – power on Temperature sensor probe failure



Intex Purespa topside touchpad error codes & messages

E90 No water flow
E91 Low salt alarm
E92 High salt alarm

E92 Fight Salt daim
E94 Low temperature under 4C
E95 Temperature too high
E96 System error

99 Temperature sensor fault

END After 72 hours of heating, system hibernates



Jacuzzi Hot Tubs topside touchpad error codes & messages

OH Over Temperature detected
COOL Water temp is 11 degrees below set point

FLO Flow / pressure switch open circuit
Hold Panel buttons pressed to frequently

HOT PCB temperature too high ICE Freeze protection

ICE2 Freeze protection
PnL Touchpad – pcb communication error
'Watchdog' major fault, spa de-activated

Sn1 Hi-limit sensor failure
Sn3 Temperature sensor failure
FLO2 Shorted flow / pressure switch

PluG Test sensor plug left plugged in after service



Joyonway topside touchpad error codes & messages

F1 Temperature sensor open circuit
F2 Temperature sensor closed circuit
F3 Temperature too high
F4 Temperature too low
F5 Auto reset thermoswitch open
F6 Manual reset thermoswitch open
F8 Eprom memory error
F9 System settings error

LaMotte ColorQ error codes

Er3 Insufficient light reaching detector
Er7 Blank not properly set, dirty tube, damaged tube
SUN Bright sunlight penetrating chamber.
Lo Result is below measuring range
Hi Result is above measuring range
bAt Battery is low
bLA Set 'Blank'



Len Gordon topside touchpad error codes & messages

Flashing display 00

Damaged temp sensor or heat circuit failure Memory loss – reset required



-40
122
HI
HI / temp display – alternating
J11
J12
PSC
PSO
Flashing 'heat' light

Temperature sensor open circuit
Temperature sensor short circuit
Hi-limit fault above 117F / 47C
Over temp above 112F / 44C
Temp sensor plugged in Jack 11 is faulty or dangling
Temp sensor plugged in Jack 12 is faulty or dangling
Pressure switch closed
Pressure switch open
Hi-limit fault on older units – reset with light or pump key



Monarch Spas, Paramount Pool Equipment, S&P Ultima Micro Controlled Spa Command Centre topside touchpad error codes & messages

'Heater On' LED Flashing

Temperature sensor fault



E1

E2

E3

E4

E3 flashing

MSpa topside touchpad error codes & messages

FEF Filter Pump system failure FEF0 Filter system short circuit FEF1 Filter system open circuit FEF2 Overcurrent / Blocked pump FEF3 Water pressure switch open circuit F1 Water pressure switch open circuit F2 Filter system open circuit Overcurrent / Blocked pump F3 Filter system short circuit F4 **BBF**

BBF Blower failure
BBF0 Blower short circuit
BBF1 Blower open circuit
BBF2 Blower overcurrent
CFF

CEF Communication error between panel and pcb

HEF0 / HFB
Heating system short circuit
HEF1
Heating system open circuit
HEF2
Heating system overcurrent
SPL / E0
Heating system overcurrent
Temp below 0c – Freeze condition

SPH / E0 Abnormally high temperature detected 60c

Low water pressure / level

Low water level / detect function failure

System Failure Heater failure

Press On/Off, C/F, and Temp+ sequentially to reset



Perfect Spa Pool topside touchpad error codes & messages

EE01 EE02 EE03 EE04 EE05 EE06 EE07 EE08 EE09	Temperature sensor failure High Limit – over 42C Low water level Insufficient/no water pressure Heater fault Circulation pump fault Jet 1 pump fault Jet 2 pump fault Air blower fault
EE10 EE11	Light fault Ozone fault



Pinnacle topside touchpad error codes & messages

ОН Over heat 110F / 43C SN Sensor failure FL Flow switch closed



Presair topside touchpad error codes & messages

Er Topside or control failure or temp sensor not connected

Temp over 44.4C ΗΙ Lo Temp under 7.2C FC

Filter cycle

FL Flow error or pressure switch fail

FL (flashing) Pressure switch closed

Freeze protection mode - very low temp detected Fr



Jilong Prompt Set topside touchpad error codes & messages

Older units

E1 Temperature sensor fau	ılt
E2 Temperature Protection	Sensor Fault (HL)
E3 High Temperature Prote	ection (OT) over 38C
E4 Low Temperature Prote	ction under 20C
E5 No Heating – flow / then	mal tripped

2014+

E1	Temperature sensor open/short circuit
E2	Temperature sensor open/short circuit
E3	Temperature exceeds 45 degrees C
E4	Temperature under 2 degrees C
E5	Temperature over 50 degrees C
E6	Pressure switch open circuit
E7	Dry Run – lack of water



E0 or E1 (depending on model) E1 or E0 (depending on model) Filtration pump icon flashing Temperature sensor open circuit Temperature sensor short circuit Low flow – press on/off to reset



Softub topside touchpad error codes & messages

IPS or IP5 LED display flashing Insufficient power supply voltage Water too hot or control fault



SOWO topside touchpad error codes & messages

E0	Temperature sensor short circuit
E1	Temperature sensor open circuit
P1	Pump 1 fault
	D . O II

P1 Pump 1 fault
P2 Pump 2 fault
P3 Pump 3 fault
H1 Heater fault
B1 Blower fault
S1 Low water level

FF Temperature sensor not connected



Spa Builders topside touchpad error codes & messages

LX Series

dxx, Fdxx, Fsxx

Pxx

SUS

---F

Exx. Edxx

Edxx, Esxx

Orxx (2.5-9) CAL

SN1, -01, 131, -07, or -8

SN2, -02

FL1, -03

Flow / pressure switch open circuit

FL2, -04

COL

ICE

OH

Hi-limit sensor failure

Temperature sensor failure

Flow / pressure switch open circuit

Cool condition 11 degrees below set point

Freeze condition detected

Over heat condition

·- 'Watchdog' major fault, spa deactivates

Class Series (Gecko)

FLO Flow / pressure switch open circuit
FLC Flow / pressure switch closed circuit

Err Electronic software error
Prr Regulation temp sensor failure

HL Hi-limit sensor failure
FrE Possible freeze condition

* * * 3 flashing dots on display FLO or FLC

* * * with red LED lit on pcb

0.0 / 32F

Hi-limit sensor failure

Regulation temp sensor failure

H2O Insufficient water level
BOO Pump 1 boost mode
CLE, CF Reminder – clean filter

SbY Spa is in 'standby'mode – 1hr shutdown LOC Touchpad panel keys locked

Touchpad panel keys locked Touchpad partial lock

LocP / LoPTouchpad partial lockLocF / LoFTouchpad full lockFxx, FdxxFilter cycle duration i

Filter cycle duration in hours
Filter cycle start delay in hours
Purge cycle duration in hours
Economy cycle duration in hours
Economy cycle start delay in hours

Over range beyond normal temp limit (not a fault)

Calibration error

Suspend mode – Pump 2 Button may be stuck Dimension One Spas Communication Error



spaGEAR - Monarch Pool Systems topside touchpad error codes & messages

EC Start up checks in progress
LP Insufficient water in heater
00 Temperature sensor fault
Flush cycle active



Spanet topside touchpad error codes & messages

In addition to the below error codes, both XS & SV series have a 'heartbeat' LED that flashes to indicate the error condition. On, Off, On, Off, On, On, On, Off, On, On, Off, On, Off is normal. 'On, On, Off, On, On, Off indicates error 3.

XS series

ER-2	Heater sensor plug connection fault
ER-3	Water prime failed, insufficient water
ER-4	Heater thermal trip, over heat
ER-5	Over temperature. Sensor reading over 45c
ER-6	Heater temperature sensor failed
ER-7	In-pool sensor failed
ER-8	Controller software fault, stuck heater relay
99.9	Temperature sensor failed

SV Series

Heater sensor failed
Water prime failed, insufficient water
Heater thermal trip, over heat
Over temperature. Sensor reading 45c
12v overload – too many LED lights
Stuck heater relay
Over current – excessive power draw
Temperature sensor failed

SV Heat Pump

HEAT PUMP AMB	Ambient thermistor sensor error
HEAT PUMP COND	Condenser thermistor sensor error
HEAT PUMP FLOW	No water flow detected
HEAT PUMP LOW P	Compressor low pressure switch open
HEAT PUMP HIGH P	Compressor high pressure switch open
HEAT PUMP COMP	Compressor thermal cut out open
HEAT PUMP EXCH	Heat exchanger thermal cut out open



Spa-Tech topside touchpad error codes & messages

C-1 Control System - S1 & L1 Touchpads

E0	CPU is fully loaded or loose cables
E1	Heater temperature sensor fault
E2	Heat pump temperature sensor fault
E3	Environmental temperature sensor fault
E4	Water level sensor detecting insufficient water level
E5	Unmatched power input or voltage fluctuations
E6	Water pressure sensor fault – FLO error
C	Cold / freeze – water below 7 degrees C
H	Overheat – water temperature over 43 degrees C
HH	Overheat – water temperature over 45-47 degrees C

C-II Control System (used on Oasis Spas, Classic Spas and others)

E1	Temperature sensor 1 fault
E2	Temperature sensor 2 fault
E3	Heat pump temperature sensor fault
E4	Water level sensor detects insufficient water
E5	Input voltage either too high or too low
E6	Flow switch fault
E8	Heat pump compressor pressure fault
E9	Insufficient water flow
C	Low water temp below 7c
Н	High temperature hi-limit 43c
HH	Overheat 47c
PL	Panel locked

Spa-Tron

Pump = Off

Mode = Off Heat = Red Pump = Off	Hi Limit fault
Mode = Green Heat = Off Pump = Red	Flow/Pressure switch open
Mode = Yellow Heat = Off Pump = Red	Flow/Pressure switch closed
Mode = Yellow or Green Heat = Red	Temperature sensor fault



Splash Pool Accessories (S.P.A.) topside touchpad error codes & messages

Red, Green, Yellow LED's flashing

LEH

Temperature sensor failed Insufficient water detected ? possibly same as HE otherwise unknown

Sundance Spas

Sundance Spas topside touchpad error codes & messages

ILOC Interlock failure

FLO Flashing - flow switch open, solid – closed

FLO2 / ICE2 Flow switch closed circuit

Hold Touchpad buttons pressed too frequently HOT PCB temperature too high

PCB temperature too high Freeze condition detected

PnL / PNL Panel – PCB communication error

Hi-limit sensor failure Temperature sensor failure

water temp 11 degrees below set point Test sensor plug left plugged in after service 'Watchdog' major failure. Spa deactivated

Panel locked Power Failure

UV bulb/lamp replacement required



Tecmark TDI topside touchpad error codes & messages

Flashing display OP or OB SP or SB 8888

ICE

Sn1 Sn3

COOL

PLuG

- - - -

LOC PF

blb

Over heat 110F / 43C Open probe Short probe Voltage spike



United Spas topside touchpad error codes & messages

T5 Touchpad

oH Fr Over heat 48C

Freeze – temp below 4C

Flo Er0, Er1 Er2, Er3 Fc

Flow switch open circuit Regulation temperature sensor failure Hi-limit sensor failure

Filter Cycle

T7 Touchpad

Fr SOH HOH tS LS

FL

Freeze - temp below 8C Software Over heat - temp above 45C Hardware Over heat - hi-limit above 46C Temperature sensor error Hi-limit sensor error Flow switch open circuit



Valtherm error codes & messages

Models A and C

PO AL PSI LO

Warning light

Overtemp 110F / 43C Alarm mode after PO. Press up or down to reset Water pressure too low Low temp below 65F / 18C. Warning lights lit = heater on.

Indicates heating or economic mode



Spas DM Industries

Vita Spas topside touchpad error codes & messages

BJ2P

BLO

BUS

CP

CS

F1 or F2 or F3 or F4

FLO

HC or H1 or H2

HILI

HP HS₁ HS₂ **ICE** LP

LB or LI LS1 LS2

Purging notification

Air blower error. Fuse blown or defective blower

Communication error

Circulation / HEET pump fault

Current sensor error Fuse 1, 2, 3, or 4 blown

Pressure switch open - low flow

Heater error

Hi Limit senses above 112F / 44C

High voltage observed Pump 1 high speed fault Pump 2 high speed fault Water temp below 50F / 10C

Light fault

Low voltage observed Pump 1 low speed fault Pump 2 low speed fault LS LS=O LS=S O3U or O3 P1 or P2 or P3 Pb or PB or P6 PS RFI

PS REL SS SS=O SS=S Large water sensor error Large water sensor open circuit Large water sensor short circuit

Ozonator error Pump1, 2, or 3 fault

Power board communication to topside error

Pressure switch closed error

Relay stuck

Small heater sensor error

Small heater sensor open circuit Small heater sensor short circuit



Waterco topside touchpad error codes & messages

Portapac SSC

00 'Heat' indicator flashing 'Power' indicator flashing SP1 or SP2 Temperature sensor fault
Over temperature sensor fault
Over temperature resettable device tripped out 45 degrees
Blower speed adjustment (do not alter – press 'Demand')

Digi-Heat Heaters

nFL o/t 00 No flow detected, pressure switch open circuit Over temperature Tripped 45c Temperature sensor failed



Waterway Plastics topside touchpad error codes & messages

Neo series

Plumbing error
Insufficient flow
Low flow
Water Overheat
Potential Freeze
Sensor 1 open
Sensor 1 short
Sensor 2 open
Sensor 2 short
Sensor 3 open
Sensor 3 short

Swap sensors 1 & 3 for flow direction change

No water

Lack of water flow

Overtemp 48 degrees reached

Temp too low – freeze protection enabled

sensor 1 open circuit sensor 1 short circuit sensor 2 open circuit sensor 2 short circuit sensor 3 open circuit sensor 3 short circuit

Signature Series

SILd

CoLd Temperature approaching zero

Over Heat condition ОН **HLEr** Hi-limit over heat sensor failure **SEoP** Temperature sensor open circuit Temperature sensor short circuit **SESH**

PSoC Pressure switch open circuit with circ pump **PSoL** Pressure switch open with low spd pump Pressure switch open with high speed pump **PSoH**

CboH Control box over heat 115f / 46c Time out error - system shutdown ToE

CLDN Cool down cycle **ECL** Energy saving cycle **CHCL** Air blower Channel clear UTO User time out

PUF Post use filtration **MENU** Menu access

CANC Cancel/discard changes

SEND Save changes **CALB** Calibration for temp FPx (1-4) Filtration period

Silence period start time SIL FPxd (1-4)

Filter duration

Silence timer duration

If you have additional codes and messages for inclusion, or think our listing is incorrect, please feel free to email information to sales@spaparts.com.au so that we may correct / update accordingly.

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