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Spa & Hot Tub Topside Touchpad Error Messages & Fault Codes

Revision 40, 1 August 2017

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:





Hercules



Hurricane

HYDROQUIP



Spa-Tech



SPA-N-A-BOX



Tiger River Spas





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)	Spa pack temperature too high
Prr / Pr or Pr2 (swim spa slave)	Temperature sensor failure
OH or OH2 (swim spa slave)	Over heat 43c
FLO / CFLO or FL2 (swim spa slave)	Flow error
HL or HL2 (swim spa slave)	Hi-limit 48c
Hr / HR or Hr2 (swim spa slave)	Internal hardware error - Thermal Fuse
HR / HRA or HR2 (swim spa slave)	Internal hardware error - Stuck relay
FCL	Pressure switch closed
SPin	Input voltage too low
PoUP	Power Up
Lxx / LLxx	Low level software setting
UPL / BL	No low level software loaded
Er1 (swim spa)	Communication between Master & Slave failure
SLA (swim spa)	Main touchpad has been connected to the slave unit
LLxx (swim spa)	Unable to select LL program – reverts to menu – faulty Slave
LLEr (swim spa)	LL program is not a swim spa config & slave unit detected
StbY	Standby mode
OFF	30 min all outputs off
Fx, FFxx	Filter cycle frequency per day
FSxx	Filter cycle start time
Fdxx, dx	Filter duration in hours
EP 0 or 1	Economy mode on/off
ESxx	Economy mode start time
Edxx	Economy mode duration in hrs
EExx	Economy mode end time
Econ	Economy mode set
rLY	Stuck relay
Comm	Verify cable connections – communication error
Supp	Connect power to 240v
HIBr / HiBr	Add fresh water
LoBr / NoBr	Add BromiCharge

in.xm

SP-br	Incorrect input current set
SP-Ot	Spa pack under spa too hot
SP-OH	Over heat – water temp 48c
SP-Hr	Internal hardware error
SP-in	Input voltage too low
SP-Fx	Fuse 1-3 blown
rH-Hr	Hardware error in in.therm heater
rH-HL	Hi-limit circuit tripped
rH-nF	No flow detected
rH-Pr	Regulation temperature sensor failed
rH-nC	Communication error - heater to pack
rH-nH	Not heating – no temp increase detected
rH-ld	No match between heater and pack models
Px-Er	No detection of Pump current draw P1-5-Er
CP-Er	No detection of current change on circ pump
bL-Er	No detection of current change on blower
Fn-Er	No detection of current change on fan
Sc-Er	System learning error
LLxx	Low level software setting
Ph- xP	Incoming power – number of phases 1-3
brxx	Input current setting

--- (after initial priming)

Possible broken or bent heater sensor pin(s)

in.xm2

rH-lid	No match between heater and pack models
Hr	Hardware error detected - thermal fuse
HR	Hardware error detected – stuck relay
HL	Hi-Limit circuit tripped 50c
OH	Overheat. Water temp at 44.5c
rH-nC	Communication error – heater to pack
Pr-r / Pr	Temperature sensor failed
AO-H	Spa pack under spa too hot
SP-in	Input voltage too low
FL-O / CFLO	No flow detected
FL-C	Flow switch closed
Fx	Fuse blown F1-3
Sc-Er	Scan error detected / system learning error
Fr-Er	Input power frequency 50/60hz out of range
Sc	System scanning – 1 st power up
bL	No firmware downloaded into system
P9	Programming firmware into system
UP-Ld	No valid low level software uploaded
UPL / BL	No valid low level software uploaded
Comm	Verify cable connections
Supp	Connect power to 240v
HIBr / HiBr	Add fresh water
LoBr / NoBr	Add BromiCharge



ACC topside touchpad error codes & messages

CoLd	Temperature approaching zero
OH	Over Heat condition
HLEr	Hi-limit over heat sensor failure
SEoP	Temperature sensor open circuit
SESH	Temperature sensor short circuit
PSoC	Pressure switch open circuit with circ pump
PSoL	Pressure switch open with low spd pump
PSoH	Pressure switch open with high speed pump
CboH	Control box over heat 115f / 46c
ToE	Time out error – system shutdown
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
SIL	Silence period start time
FPxd (1-4)	Filter duration
SILd	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

Prr
 HL (flashing)
 HL (solid)
 FLO
 FLC
 OtH
 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 disconnected
 pH error – pH above 8.2
 Damaged PCB processor
 Error code/condition present



Astrel Moddo topside touchpad error codes & messages

FLC	Pressure / Flux Switch Closed
FLO	Pressure / Flux switch Open
Ho	Over Temperature 44C
HoH	High Limit 55C
H2O	Low water level
HPF	Hi Limit sensor failure
rPF	Temperature sensor failure
Ferr	System error
FULL	Compensation vat detecting water
Fus1	Fuse 1 failure
Fus2	Fuse 2 failure
Fus3	Fuse 3 failure
Er1	Wrong pump configured with heater
Er2	2 speed pump low and high reversed
Er3	Output load not detected



Balboa topside touchpad error codes & messages

M7 messages

--- or --	Temperature not available
-- F, -- C, or --	Temperature not available – priming
BUF	Internal problem detected
CFE or CONFIG ERROR	Configuration error
CrC or CHKSUM FAIL	Firmware installation failure
dr, HEATER MAY BE DRY WILL RETEST SHORTLY	Possible inadequate water detected
drn, DRAINING	Indicating pump is on while draining
drY, dY, HEATER DRY SERVICE REQD	Inadequate water detected
Ecn, Ec	Economy mode set
gFI, GFCI FAILURE	Spa could not trip RCD
HFL, HL, HTR FLOW LOW	Substantial difference between sensors
Hot, HOT-CALL SVC	Possible pump stuck on
ICE, IC, 1C, FREEZE COND	Potential freeze condition – pumps run
LF, LOW FLOW	Persistent low flow problem
OHH, HH, HTR TEMP LMT SERVICE REQD	Overheat – spa shut down
OHS, OH, SPA TEMP LMT	Overheat – spa shut down
PHH, PH IS HIGH LOWER PH	pH is high
PHL, PH IS LOW RAISE PH	pH is low
Pr, PRIMING MODE TAKES 4 MIN	Initial priming mode active
PSt, PERSIST FAIL	Hardware failure
rt9, TEST GFCI	Reminder – test RCD
rCA, CHANGE MINERAL CARTRIDGE	Reminder – change Nature 2 cartridge
rCH, NEW FILTER	Reminder – replace filter
rCL, CLEAN FILTER	Reminder – clean filter
rCO, CLEAN COVER	Reminder – clean spa cover
rdr, DRAIN WATER	Reminder – drain & refill spa
rPH, CHECK PH	Reminder – test/adjust chemical levels
rSA, CK SANITIZER	Reminder – test/adjust sanitiser levels
rtC, RTC FAILURE	Hardware Failure

rtr, TREAT WOOD	Reminder – wood retreatment required
SAH, SANITIZER HIGH	Sanitiser level is high
SAL, SANITIZER LOW	Sanitiser level is low
SbY, Sy, STANDBY MODE	Spa is in 'standby' mode
SE, STANDARD ECONOMY	Spa is in 'Standard-Economy' mode
SF, SAFETY FAULT	Suction protection fault
SLP, SL	Spa is in 'sleep' mode
SnA, SA, SENSOR A SERVICE REQD	Sensor A not working
Snb, Sb, SENSOR B SERVICE REQD	Sensor B not working
SnH	High Limit sensor fault
Snt	Temperature sensor fault
SnS, Sn	Sensors out of balance
Std, St, STANDARD	Spa is in 'standard' mode
StU, STUCK ON	Pump appears to be stuck on

Non M7 messages (older controllers with pressure switch)

pd	Power down, on battery back up
OH	Overheat
Flo, FI	Flow problem
Cool	Spa is 11 degrees below set point
ICE, IC	Possible freeze condition
Sn1, Sn	Hi-limit fault
Sn3, Sn	Temperature sensor fault
ILOC	Interlock fault
Ec, Econ	Spa is in 'economy' mode
Std, St	Spa is in 'standard' mode
Sl, Slp	Spa is in 'sleep' mode

Flashing LED messages - Balboa

1 flash, 3 second gap	Hi-limit fault
2 flashes, 3 second gap	Pressure switch closed (FLC)
3 flashes, 3 second gap	Pressure switch open (FLO)
4 flashes, 3 second gap	Temperature sensor fault
Flash – 1 second on, 1 second off	Hi-limit, OH
Flash – briefly OFF once per second	Sensor fault
Flash – briefly ON once per second	Pressure switch fault



onga (Balboa) topside touchpad error codes & messages

Onga 4352, 4353, 4395

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

Director & Turbo series

LED slow green (2-3 sec interval)	Initial prime fail, pressure switch open cct
LED fast green (1 sec interval)	Pressure switch open beyond initial start
LED slow red	Temperature sensor failed
LED fast red	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
E0	Temperature sensor short circuit
E1	Temperature sensor open circuit
E2	Hi-limit sensor short circuit
E3	Hi-limit sensor open circuit
E4	Flow switch short circuit
E7	Improper electrical connection
Fc	Filter cycle in operation
diS / time remaining alternating	Disable / standby mode and time remaining

BL-45 / BL-50 / BL-60

All LED's Flashing
Orange 98 & Red 104
Red 102 & Red 104
Orange 100 & Red 104

48 degrees Overtemp
Low Flow error
Temperature Sensor fault
Hi-Limit Sensor fault

Other models

PCB LED flashes 1 time ever 3 seconds
PCB LED flashes 2 times every 3 seconds
PCB LED flashes 3 times every 3 seconds
PCB LED flashes 4 times every 3 seconds

High Limit condition
Pressure switch closed condition
Pressure switch open condition
Temperature sensor fault



Caldera Spas topside touchpad error codes & messages

'TEMP' flashing
---- flashing
.._. or =:==:=
=====

Orange Ready light flashing
Grey Power & Ready lights flashing
Grey Power light flashing

Pressure switch or temperature sensor failed
Hi limit tripped
Pressure switch open circuit
Pressure switch open circuit
Pressure switch closed circuit (jets operate)
Temperature sensor fault
Low flow. Pressure switch open circuit
High limit fault



Coates heater error codes & messages

Err

Temperature sensor fault



SPA-N-A-BOX

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	Freeze protection – temp under 39F / 4C
th2 / 39 or --- / 39	Both thermistors detecting below 39F / 4C
th2 / “current water temp” or --- / “current water temp”	Temperature sensor error
OH or HOT	Over heat 112 F / 44C
HL	Hi-limit 118 F / 47C
HL / 210	Thermistor short circuit
0	Electronic failure of touchpad or pcb
FLO or --	Flow switch open circuit
FLC or --	Flow switch



Ampac, Aquaswim, AquaPacific

Davey Spa-Quip topside touchpad error codes & messages

Pulsar, 2095 & Intuitive Series

Red/green flashing on two LED's	Hi-limit sensor tripped, electronic fault
Green, Green, or Orange flashing LED	Insufficient water detected
Red/green flashing <u>pump</u> LED	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

Error 1 (H2O or Prime Failed)	Prime failed, insufficient water detected
Error 2 (Spa Power 800 & 1200 only)	Variable Speed Drive fault
Error 3	Stuck touchpad button
Error 4	Optical water sensor failure
Error 5	Over temperature condition detected
Error 6	Heater thermal cut-out overheat
Error 7	Stuck heater relay
Error 8	Temperature sensor failure
Error 9 (Spa Power 800 & 1200 only)	Clock fault
Warning 1 (Spa Power 800 & 1200 only)	Temperature sensor failure (pool OR heater)
Ht.d (Spa Power 500 only)	Heating mode - Demand Heating
Ht.F (Spa Power 500 only)	Heating mode – Filtration Only Heating
Green Pump LED flashing (SP400/600/601 only)	Sleep mode active

Xcelsior Spa Pool System QX350

Error 1 (H2O/CHE)	Prime failed, insufficient or 'too pure' water
Error 3	Stuck touchpad button
Error 5	Over temperature condition detected 45c
Error 6	Pump heater thermal cut out overheat
Error 7	Stuck heater relay
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



DIMENSION ONE SPAS

Dimension One (D1) Spas

2017 Bay series spas - in.yt / in.k1000

HL	High Limit 48C
CFLO	No flow
FLO	No flow for over 2 hours
HR	Hardware error – thermal fuse
HRA	Hardware error – stuck relay
OH	Over heat 43C
Pr	Temperature sensor fault
AOH	Elevated controller temperature
FCL	Pressure/flow switch closed
SPin	Input voltage low
UPL	No valid software installed
Comm	Communication error
Supp	Connect to 240v
PoUP	Power Up



FLUID DYNAMICS

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

noF	No flow – flow switch open
E1	Temperature probe Open circuit
EPr	EEPROM memory error



Ethink topside touchpad error codes & messages

KL6600 and KL8000 series except KL8500B

ESA	Temperature sensor error
ESb	Water flow sensor error
Eob	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
EUo	High input voltage 260v
Elo	Lamp current over limit
CPo	Circulation pump current over limit
LLL	Low water level
ICE	Freeze warning – below 44F / 7C
EIn	Auto moisturizing overtime
InF	System is refilling
InP	Water refilling Paused
out	Auto drainage process is running

KL8500B series

SnA	Temperature sensor error
Snb	Water sensor error
oHb	Water sensor over limit
oHH	Heater error over heat 48 degrees
oHS	Heater error over heat 43.5 degrees
HFL	Water flow is too low
LF	Low flow
dry	Insufficient water level
ICE	Freeze warning – below 7C
InF	System is refilling

Ethink KL8-2 and KL8-3 series

E1	Temperature sensor open / short circuit
E2	Flow sensor open circuit
EP	Low flow through Ethink heater
FF	Over temperature fault



Fasco pump motor error codes & messages

imPower Lockout Codes (on numerous variable speed pool pumps)

None	Eeprom load failure
1 blink	Micro processor failure
2 blinks	Under voltage below 180v AC
3 blinks	Temperature – over 100C or under -20C
4 blinks	Over current tripped
5 blinks	Over voltage above 269v AC
6 blinks	Shaft seized
7 blinks	Self check – self testing failed
8 blinks	Motor fault – phase disconnected
10 blinks	Other fault



Gao Er Da – GD topside touchpad error codes & messages

HEAT	Hi-limit over 45c
ICE	Water temperature below 5c
CLDF	Circulation pump problem / flow problem
LD F	Load Failure – faulty pump, heater, etc
E1, FF	Temperature sensor failure
Water pump or tap ICON flashing	Water level too low
Thermometer ICON flashing	Low flow
CALB	Temperature calibration mode
S.C.	System wiring fault



Imperial Spas



Swift River Spas

Gatsby topside touchpad error codes & messages

dCP	No DC power at master relay
FC	Freeze condition under 15 degrees C
FLO	No circ pump current draw
Ht	Over 43 degrees C
HtS	Open hi-limit sensor
HtS-OHt	Short hi-limit sensor
OHT	Overheat 48 degrees C
tS-0-tS	Open temp sensor
tS-255-Ht-OHt	Short temp sensor
PS1	Pressure switch closed
PS2	Pressure switch open



GECKO



Class Series

Gecko topside touchpad error codes & messages

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	Hi-limit sensor failure
0.0 / 32F	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
LocP / LoP	Touchpad partial lock
LocF / LoF	Touchpad full lock
Fxx, Fdxx	Filter cycle duration in hours
dx, Fdxx, Fsxx	Filter cycle start delay in hours
Pxx	Purge cycle duration in hours
Exx, Edxx	Economy cycle duration in hours
Edxx, Esxx	Economy cycle start delay in hours
Orxx (2.5-9)	Over range beyond normal temp limit (not a fault)
CAL	Calibration error
SUS	Suspend mode – Pump 2 Button may be stuck
---- F	Dimension One Spas Communication Error



Hercules topside touchpad error codes & messages

OH	Over temperature condition detected
FLO	Flow problem
ICE	Freeze condition detected
SN1	Hi-limit sensor failure
SN2	Temperature sensor failure



Tiger River Spas

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

'Ready' & 'Power' Logo lights flashing
'Power' blue light flashing
'Ready' green (or red) light flashing

Pressure switch open circuit
Hi limit fault
Temperature sensor fault



SOLANA.
Serenity made simple.

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
Loc	Touchpad key lock
CL	Current time of day
Econ	Economy mode on
ECdu	Economy cycle duration
Flon	Filter cycle turn on
Fldu	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

HLW-15B

COOL	Anti freezing mode – power off
FREEZING	Anti freezing mode – power on
ERR	Temperature sensor probe failure
E1	Temperature sensor probe failure



Intex Purespa topside touchpad error codes & messages

E90	No water flow
E91	Low salt alarm
E92	High salt alarm
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 thermosthich open
F6	Manual reset thermosthich 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	Damaged temp sensor or heat circuit failure
00	Memory loss – reset required



Maddox Enterprises, Inc



Maddox LA Spas topside touchpad error codes & messages

-40	Temperature sensor open circuit
122	Temperature sensor short circuit
HI	Hi-limit fault above 117F / 47C
HI / temp display – alternating	Over temp above 112F / 44C
J11	Temp sensor plugged in Jack 11 is faulty or dangling
J12	Temp sensor plugged in Jack 12 is faulty or dangling
PSC	Pressure switch closed
PSO	Pressure switch open
Flashing 'heat' light	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
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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
F3	Overcurrent / Blocked pump
F4	Filter system short circuit
BBF	Blower failure
BBF0	Blower short circuit
BBF1	Blower open circuit
BBF2	Blower overcurrent
CEF	Communication error between panel and pcb
HEF0 / HFB	Heating system short circuit
HEF1	Heating system open circuit
HEF2	Heating system overcurrent
SPL / E0	Temp below 0c – Freeze condition
SPH / E0	Abnormally high temperature detected 60c
E1	Low water pressure / level
E2	Low water level / detect function failure
E3	System Failure
E4	Heater failure
E3 flashing	Press On/Off, C/F, and Temp+ sequentially to reset



Perfect Spa Pool topside touchpad error codes & messages

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



Pinnacle topside touchpad error codes & messages

OH	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
HI	Temp over 44.4C
Lo	Temp under 7.2C
FC	Filter cycle
FL	Flow error or pressure switch fail
FL (flashing)	Pressure switch closed
Fr	Freeze protection mode – very low temp detected

Jilong Prompt Set topside touchpad error codes & messages

Older units

E1	Temperature sensor fault
E2	Temperature Protection Sensor Fault (HL)
E3	High Temperature Protection (OT) over 38C
E4	Low Temperature Protection under 20C
E5	No Heating – flow / thermal 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



Blue Lagoon Spas, Oceane Spas

S&G Spa topside touchpad error codes & messages

E0 or E1 (depending on model)	Temperature sensor open circuit
E1 or E0 (depending on model)	Temperature sensor short circuit
Filtration pump icon flashing	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
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SOWO topside touchpad error codes & messages

E0	Temperature sensor short circuit
E1	Temperature sensor open circuit
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

SN1 , -01, 131 , -07 , or -8	Hi-limit sensor failure
SN2 , -02	Temperature sensor failure
FL1, -03	Flow / pressure switch open circuit
FL2 , -04	Flow / pressure switch closed circuit
COL	Cool condition 11 degrees below set point
ICE	Freeze condition detected
OH	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	Hi-limit sensor failure
0.0 / 32F	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
LocP / LoP	Touchpad partial lock
LocF / LoF	Touchpad full lock
Fxx, Fdxx	Filter cycle duration in hours
dxx, Fdxx, Fsxx	Filter cycle start delay in hours
Pxx	Purge cycle duration in hours
Exx, Edxx	Economy cycle duration in hours
Edxx, Esxx	Economy cycle start delay in hours
Orxx (2.5-9)	Over range beyond normal temp limit (not a fault)
CAL	Calibration error
SUS	Suspend mode – Pump 2 Button may be stuck
---- F	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 is normal. 'On, On, On, Off, On, 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

ER-2	Heater sensor failed
ER-3	Water prime failed, insufficient water
ER-4	Heater thermal trip, over heat
ER-5	Over temperature. Sensor reading 45c
ER-6	12v overload – too many LED lights
ER-8	Stuck heater relay
ER-10	Over current – excessive power draw
99.9	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 & Yang Control

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
H	High temperature hi-limit 43c
HH	Overheat 47c
PL	Panel locked

Spa-Tron

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
Pump = Off

Temperature sensor fault



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

HE	Temperature sensor failed
Red, Green, Yellow LED's flashing	Insufficient water detected
LEH	? possibly same as HE otherwise unknown



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
ICE	Freeze condition detected
PnL / PNL	Panel – PCB communication error
Sn1	Hi-limit sensor failure
Sn3	Temperature sensor failure
COOL	water temp 11 degrees below set point
PLuG	Test sensor plug left plugged in after service
----	'Watchdog' major failure. Spa deactivated
LOC	Panel locked
PF	Power Failure
blb	UV bulb/lamp replacement required



Tecmark TDI topside touchpad error codes & messages

Flashing display	Over heat 110F / 43C
OP or OB	Open probe
SP or SB	Short probe
8888	Voltage spike



United Spas topside touchpad error codes & messages

T5 Touchpad

oH	Over heat 48C
Fr	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

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

Warning light



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
LB or LI
LP
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
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

CoLd	Temperature approaching zero
OH	Over Heat condition
HLEr	Hi-limit over heat sensor failure
SEoP	Temperature sensor open circuit
SESH	Temperature sensor short circuit
PSoC	Pressure switch open circuit with circ pump
PSoL	Pressure switch open with low spd pump
PSoH	Pressure switch open with high speed pump
CboH	Control box over heat 115f / 46c
ToE	Time out error – system shutdown
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
SIL	Silence period start time
FPxd (1-4)	Filter duration
SILd	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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