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1300 SPATEX

1300 772839

Spa & Hot Tub Topsid Touchpad Error Messages & Fault Codes

Updated 8th November 2023

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, Israel, 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 | pool | aquaculture

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 by brands.



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
LO1 FLO / LO2 FLO	Flow error
NO FLO	Persistent 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 / CoE	Verify cable connections, touchpad communication error
Supp	Connect power to 240v
HIBr / HiBr	Add fresh water
LoBr / NoBr	Add BromiCharge
HP1-99	Heat pump error service code
Wipe Screen Animation	Too much water on in.k1000 touchscreen
Switch/Buzzer (or other random message)	Touchpad factory test mode triggered – faulty touchpad
HP01-99	Heat pump error service code
nt	Quiet mode – Watkins
5555	Unlock Settings
3732	Unlock a locked touchpad



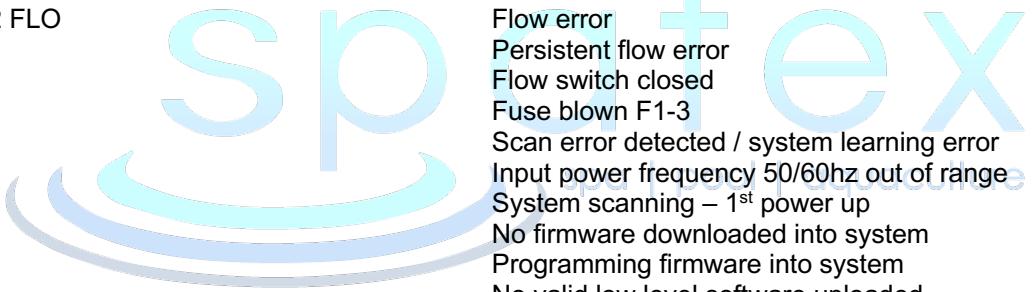
in.xm

SP-br	Incorrect input current set
SP-Ot	in.xm 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 (x=1, 2, or 3)	Fuse 1-3 blown
SP-OC	Overcurrent by more than 10%
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-Id	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)
Switch/Buzzer (or other random message)	Touchpad factory test mode triggered – faulty touchpad
Cycling Heat & Thermometer symbols	Reg slope temperature check issue – clean/align heater element or replace in.therm heater

in.xm2

rH-Id	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
Rh-Er	Lazboy hot tub remote heater fault
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
LO1 FLO / LO2 FLO	Flow error
NO FLO	Persistent flow error
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
HP01-99	Heat pump error service code
HiBr / HiBr	Add fresh water
LoBr / NoBr	Add BromiCharge
Wipe Screen (Animation)	Too much water on in.k1000 touchscreen
Switch/Buzzer (or other random message)	Touchpad factory test mode triggered – faulty touchpad



in.temp Heat Pump

HP01	System 1 exhaust temp sensor fault
HP05	Coil temp sensor fault
HP09	System 1 return gas temp fault
HP18	Water outlet temp sensor fault
HP19	Water inlet temp sensor fault
HP22	Ambient temp too low
HP41	Water flow protection
HP42	System 1 high pressure protection
HP46	System 1 low pressure protection
HP51	System 1 exhaust temp too high
HP55	Water inlet-outlet temp differential protection
HP56	Water outlet too cold for cooling
HP63	Water outlet temp too low when defrosting
HP65	Ambient temp too low

HP99

Communication Error





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

Low water level detected

Bell icon & HEAT

Water temperature above 45c

Bell icon & ICE

Water temperature below 5c

ICE

Winter mode

Bell icon & LD F

Load failure

Bell icon & LEAK

Faulty wiring detected

CLDF

Low flow

FHL

Temperature difference over 5c – low flow

RPH

Reminder – test pH

RSA

Reminder – sanitise spa

RCL

Reminder – clean the filter

RT9

Reminder – test RCD safety switch

RDR

Reminder – drain / refill

RCO

Reminder – clean spa cover

RTR

Reminder – treat / clean spa cabinet





Arctic Spas topside touchpad error codes & messages

Prr	Temperature probe failure or disconnected
HL (flashing)	Over temperature 44.5 degrees
HL (solid)	High Limit 48 degrees
FLO	Flow switch open circuit
FLC	Flow switch closed circuit
OtH	Heater barrel rate of heating is too fast
FrEEzE ProtEct (scrolling)	Water temp below 10 degrees – freeze protection mode
dEcL	Circuit breaker setting overload error
GF	Ground/Earth Fault
LocP	Partial touchpad lock
LocF	Full touchpad lock
tSt	System testing hi-limit probe on start up
HPt	Heater probe test failed – re-attach to heater
Hd	Hi Limit probe disconnected
pH	pH error – pH above 8.2
-----	Damaged PCB processor
Spa light flashing	Error code/condition present





Astrel Modo topside touchpad error codes & messages

FLC	Pressure / Flow Switch Closed
FLO	Pressure / Flow switch Open
Ho or HL (flashing)	Over Temperature 44C
HoH, HOH or HL (steady)	High Limit 55C (48C for HL)
H2O	Low water level
HPF	Hi Limit sensor failure
rPF or Prr	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, SnR, 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
Spa Light(s) flashing – user warning	Stuck relay, sensor fault, GFCI fault – visual warning

Non M7 messages (older controllers with pressure switch)

pd
OH
Flo, Fl
Cool
ICE, IC

Power down, on battery back up
Overheat
Flow problem
Spa is 11 degrees below set point
Possible freeze condition

Sn1, Sn
Sn3, Sn
ILOC
Ec, Econ
Std, St
Sl, Slp

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 – D1 spas
2 flashes, 3 second gap - D1 spas
3 flashes, 3 second gap - D1 spas
4 flashes, 3 second gap - D1 spas
Flash – 1 second on, 1 second off
Flash – briefly OFF once per second
Flash – briefly ON once per second
Spa Light(s) flashing – user warning

Hi-limit fault
Pressure switch closed (FLC)
Pressure switch open (FLO)
Temperature sensor fault
Hi-limit, OH
Sensor fault
Pressure switch fault
Stuck relay, sensor fault, GFCI fault – visual warning





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

Jet LED slow Green (2-3 sec interval)
Jet LED fast Green (1 sec interval)
Jet LED slow Red 2-3 sec interval)
Jet LED fast Red (1 sec interval)

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 green flashing 'Power' indicator
LED orange flashing 'Jets / Pump' indicator
LED red flashing – 3 flashes

Low or high voltage condition or pump in 'lock out'
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

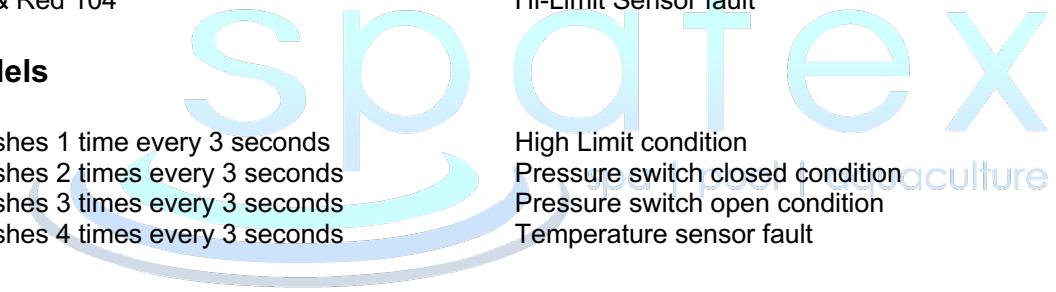
All LED's Flashing
Orange 98 & Red 104
Red 102 & Red 104
Orange 100 & Red 104

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

Other models

PCB LED flashes 1 time every 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





Cleverspa

FC
SL / HL
SH

Change filter – 168 hours of running – Press filter to reset
Temperature fault
Temperature sensor fault





Custom Molded Products - Nexxus Bath Control systems

No H2O / Warning icon / pump won't operate
Too Hot

Insufficient water level
Water temperature exceeds 43.9C





Coates heater error codes & messages

Err

Temperature sensor fault





SPA2GO

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

th2 / 39 or --- / 39

th1 / "current water temp" or --- / "current water temp"

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

th3 / 39

OH or HOT

HL

HL / 210

0

FLO or --

FLC or --

Freeze protection – temp under 39F / 4C

Both thermistors detecting below 39F / 4C

Temperature sensor error – connected to J2

Temperature sensor error – connected to J1

Both thermistors detecting below 39F / 4C

Over heat 112 F / 44C

Hi-limit 118 F / 47C

Thermistor short circuit

Electronic failure of touchpad or pcb – check J8

Flow switch open circuit

Flow switch





Ampac, Aquaswim, AquaPacific

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
02
03
04
05
06
07
08
09

Stuck touchpad button
Touchpad Communication error
Temperature sensor failure mk2 sensor
Pressure switch closed circuit
Over temperature condition
Heater thermal cut-out overheat
Stuck heater relay
Temperature sensor failure mk1 sensor
Prime failed, pressure switch open circuit

Spa Power 1000 & 2000

01
02
03
04
05
06
07
08
09
Display contrast too Light or Dark to read (SP2000)

Stuck touchpad button
Touchpad communication error
Temperature sensor failure
Optical water sensor failure
Over temperature condition detected
Heater thermal cut-out overheat
Stuck heater relay
Temperature sensor failure (on some models)
Prime failed, insufficient water detected
Hold down 'Display' button and Up or Down to adjust

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

Error 1 (H2O or Prime Failed)
Error 2 (Spa Power 800 & 1200 only)
Error 3
Error 4
Error 5
Error 6
Error 7
Error 8
Error 9 (Spa Power 800 & 1200 only)
Warning 1 (Spa Power 800 & 1200 only)
Ht.d (Spa Power 500 only)
Ht.F (Spa Power 500 only)
Green Pump LED flashing (SP400/600/601 only)
Display contrast too Light or Dark to read (SP800,1200)

Prime failed, insufficient water detected
Variable Speed Drive fault
Stuck touchpad button
Optical water sensor failure
Over temperature condition detected
Heater thermal cut-out overheat
Stuck heater relay
Temperature sensor failure
Clock fault
Temperature sensor failure (pool OR heater)
Heating mode - Demand Heating
Heating mode – Filtration Only Heating
Sleep mode active
Hold down 'Light' button and Up or Down to adjust

Xcelsior Spa Pool System QX350

Error 1 (H2O/CHE)
Error 3

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

Error 5
Error 6
Error 7
Error 8
Error 9

Over temperature condition detected 45c
Pump heater thermal cut out overheat
Stuck heater relay
Temperature sensor failure
Heater control circuit failure

Celsior Bath Pumps

Pump stops 10 secs after heater button engaged

Sensor fault/unplugged

Xcelsior Bath Pumps

Jet 1 LED flashing

Dry run protection – fill bath & wait 5 mins

SPSVB Variable Speed Blower

Error 2 (2 LED flashes / beep)
Error 3 (3 LED flashes / beep)

Communication or electronic failure
Stuck touchpad button



DIMENSION ONE SPAS®

Dimension One (D1) Spas

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

HL
CFLO
FLO
HR
HRA
OH
Pr
AOH
FCL
SPin
UPL
Comm
Supp
PoUP

High Limit 48C
No flow
No flow for over 2 hours
Hardware error – thermal fuse
Hardware error – stuck relay
Over heat 43C
Temperature sensor fault
Elevated controller temperature
Pressure/flow switch closed
Input voltage low
No valid software installed
Communication error
Connect to 240v
Power Up





Eezi-Touch

Green 'Power' LED on, Blue 'Pump' LED flashing once per second
Touchpad or cable fault

Sensa-Touch

Green 'Power' LED on, Blue 'Pump' & 3 x red heater LED's flashing once per second in unison
Touchpad or cable fault

Green 'Power' LED on, Blue 'Pump' LED off & 3 x red heater LED's flashing three times per second in unison
Temperature sensor fault

Green 'Power' LED on, Blue 'Pump' LED on, low & high red heater LED's flashing twice per second in unison
Circuit board program fault. Power off 30s to attempt reset



ELECR□

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
Ln	Locked – Press 'P' and 'Up' simultaneously 5 secs to unlock





Ethink / Zink topside touchpad error codes & messages

KL6600 and KL8000 series except KL6200 & 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

KL6200 series

E1
E2
E3
Temp Key LED flash 0.5 sec on/0.5 sec off
Temp Key LED flash 1 sec on/1 sec off

spatex
spatex aquaculture

- Temperature sensor fault
- Flow sensor fault
- Actual temperature is higher than set temperature
- Water flow not detected
- 1C over set temperature reached, heater off

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
00	Touchpad Locked: Press Power-Music-Volume Up-Power
P Control	Entered Testing Mode – Power Off to reset
LV Protect	Entered Testing Mode – Power Off to reset



EvoHeat heat pump error codes & messages

Fusion, Force & DHP-R Series

P01	Water inlet temp sensor open or short circuit
P02	Water outlet temp sensor open or short circuit
P04	Ambient temp sensor open or closed circuit
P05	Coil temperature sensor fault
P07	Suction temperature sensor fault
P08	Exhaust temperature sensor fault
E01	High pressure switch fault or Low water flow
E02	Low pressure switch fault or Loss of refrigerant
E03	Flow switch fault or Low water flow
E06	Inlet/Outlet temp differential >13C
E07	Anti freeze protection <2C
E08	Communication error controller to PCB
E19	Primary anti freeze protection – ambient temp too low
E29	Secondary anti freeze protection – ambient temp too low

CS Series

P01	Water inlet temp sensor open or short circuit
P02	Water outlet temp sensor open or short circuit
P04	Ambient temp sensor open or short circuit
P15	System 1 coil temp sensor open or short circuit
P17	System 1 Absorb temp sensor open or short circuit
P19	System 1 anti freeze temp sensor open or short circuit
P25	System 2 coil temp sensor open or short circuit
P27	System 2 Absorb temp sensor open or short circuit
P29	System 2 anti freeze temp sensor open or short circuit
P35	System 3 coil temp sensor open or short circuit
P37	System 3 Absorb temp sensor open or short circuit
P39	System 3 anti freeze temp sensor open or short circuit
P45	System 4 coil temp sensor open or short circuit
P47	System 4 Absorb temp sensor open or closed circuit
P49	System 4 anti freeze temp sensor open or short circuit
P101	System 1 economizer inlet temp sensor open or short circuit
P102	System 1 economizer outlet temp sensor open or short circ.
P151	System 1 coil inlet temp sensor open or short circuit
P181	Discharge 1 temp sensor open or short circuit
P182	System 1 exhaust high temp protect/Compressor high amps
P191	System 1 using side anti freeze temp sensor fault
P201	System 2 economizer inlet temp sensor open or short circuit
P202	System 2 economizer outlet temp sensor open or short circ.
P251	System 2 compressor over current protection
P281	Discharge 2 temp sensor open or short circuit
P282	System 2 exhaust high temp sensor / compressor overheat
P291	System 2 using side anti freeze temp sensor fault
P351	System 3 coil inlet temp sensor open or short circuit
P391	System 3 using side anti freeze temp sensor fault
P451	System 4 coil inlet temp sensor open or short circuit
P491	System 4 using side anti freeze temp sensor fault
E03	Water flow failure
E04	Electrical heat overheat fault
E05	Protection system fault
E06	Inlet / outlet temp differential too high, low water flow
E08	Communication failure between controller and PCB
E11	High pressure 1 switch fault
E12	Low pressure 1 switch fault

E19	Primary anti freezing protection
E21	High pressure 2 switch fault
E22	Low pressure 2 switch protection
E29	Secondary anti freeze protection
E31	High pressure 3 switch fault
E32	Low pressure 3 switch fault
E41	High pressure 4 switch fault
E42	Low pressure 4 switch fault
E151	System 1 compressor current protection
E171	System 1 anti freeze temp sensor open or short circuit
E251	System 2 compressor current protection
E271	System 2 anti freeze temp sensor closed or short circuit
E371	System 3 heat source side anti freeze / low water flow
E471	System 4 heat source side anti freeze / low water flow





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
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





GECKO

SPA BUILDERS

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
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





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





Tiger River® Spas

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

'Ready' & 'Power' Logo lights flashing

'Power' blue light flashing

'Power' light flashing

'Ready' green (or red) light flashing

Pressure switch open circuit

Hi limit fault – spa hi limit or heater hi limit

Spa cabinet door open / faulty magnetic door switch

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

ut1 – ut4

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

Temp over-range setting above 40c





Hurlcon Astral topside touchpad error codes & messages

F0
F1
F2
F3
F4
L

Open circuit thermistor or 0c detected
Thermostat reading 45c overheat
Mechanical Hi-limit 45c
Thermistor fault
Flame Rollout detected
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 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
FREEZING
ERR
E1

Anti freezing mode – power off
Anti freezing mode – power on
Temperature sensor probe failure
Temperature sensor probe failure





Intex Purespa topside touchpad error codes & messages

E81	Transmission signal fail – rechargeable touchpad
E90	No water flow
E91	Low salt alarm, electrolytic cell failure
E92	High salt alarm
E94	Low temperature under 0c
E95	Temperature too high
E96	System error
E97	Dry fire protection
E99	Temperature sensor fault
END	After 72 hours of heating, system hibernates
No display (rechargeable touchpad models)	Charging failed, flat battery





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



Joyonway topside touchpad error codes & messages

E1	Temperature sensor fault
E2	Temperature too high
E4	Heater thermostat tripped
E5	Communication error – touchpad to control box
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	Eeprom memory error
F9	System settings error
F10	Communication error – touchpad to control box
Loc	PB557
Lock	PB553 & 555
Lock	PB554
	Press & hold any button for 3 seconds
	Press & hold 'OK' button for 3 seconds
	Press & hold the Tick button for 3 seconds





K-Star Electric Heater error codes & messages

OFF	Temperature below lowest set point 20C
PSI	Low/no water pressure
LO	Low water temperature detected
HI, HAUT	High water temperature detected
LOC	Lock mode – press up or down to unlock
RA	Temperature range access
P	Pool range 20-31C
S	Spa range 20-40C
---	Set point mode
SC	Temperature scale access
C	Celsius scale
F	Fahrenheit scale



LaMotte ColorQ error codes

Er3
Er7
SUN
Lo
Hi
bAt
bLA

Insufficient light reaching detector
Blank not properly set, dirty tube, damaged tube.
Bright sunlight penetrating chamber.
Result is below measuring range
Result is above measuring range
Battery is low
Set 'Blank'





Len Gordon topside touchpad error codes & messages

Spa touchpads

Flashing display
00

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

Lennovator

NC
SP
PO
--
OP
SH
OH
IP
FP
Temperature flashing on/off
WAIT

No communication
Spa mode
Pool mode
Data is being sent to master unit
Temperature sensor open circuit
Temperature sensor short circuit
Overheat – water temperature over 120 F
Insufficient Power
Freeze point
High water temp 109 F – 120 F
Valve turning or fireman's timeout





LX LXK series spa controls

ER01 / SNSR Axxx	Sensor A faulty
ER02 / SNSR Bxxx	Sensor B faulty
ER03 / SNSR AxBx	Sensor A & B Fault
ER04 / HRT TOO HOT	Overheat Hardware Condition > 45c
ER05 / TOO HOT	Overheat Software Condition > 45c
ER06 / SNSR OUT OF SYNC	Sensors out of Sync – more than 2c
ER07	Freeze error under 0c
ER08 / HRT MAY BE DRY	Dry / lack of water flow
ER09 / TOO COLD	Low temp. Ice condition < 7c, pumps run 30s in turn
ST1	High limit thermostat protection > 60c

LX LXKA series spa controls

SNSR A FAIL	Temp sensor A faulty
SNSR B FAIL	Temp sensor B faulty
NO COMM	Communication fault between touchpad & PCB
SNSR BLANCE	Temp sensors out of sync > 2c differential
ST1	High limit thermostat protection > 60c
DRY	Dry / lack of water flow
COLD	Low temp. Ice condition < 7c
HIGH	Overheat Condition > 45c
HOT	Overheat Condition > 60c





Maddox Enterprises, Inc

TurboTouch®

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





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
EEP / 888 / ---	Communication error
F0	Temp below 0c or above 50c, or temp sensor fault
F1	Water pressure switch open circuit
F2	Filter system open circuit
F3	Overcurrent / Blocked pump
F4	Filter system short circuit
F7	*Possible pressure switch 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





Pahlen Electric Heaters

E1
E2
E6
E7
E10
E12
HC
HP / Hi

Low / No Flow
Temperature sensor fault
Hi-Limit thermostat open circuit
Control circuit contactor, overheating limit control
Pump is inactive
Communication error
High temperature on pcb 40C
Overtemperature condition 45C





Peips Spas – France

Water tap icon crossed out

HH

H

CL

E1

FL

Low water level

Overheat 45C

High Limit 42C

Cold – under 0C

Temperature sensor or PCB failure

Filter cycle active





Wanaka Spring Spas

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
Reset	Hold 'P' for 5 secs





Pinnacle topside touchpad error codes & messages

OH
SN
FL

Over heat 110F / 43C
Sensor failure
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, Avenli

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
CH6 FIL (CHG FIL)	Filter clean reminder 150 hrs. Hold 'heat' 5 sec.
BUB	Massage pump on





Blue Lagoon Spas, Oceane Spas

S&G Spa topside touchpad error codes & messages

E0 or E1 (depending on model)
E1 or E0 (depending on model)
Filtration pump icon flashing

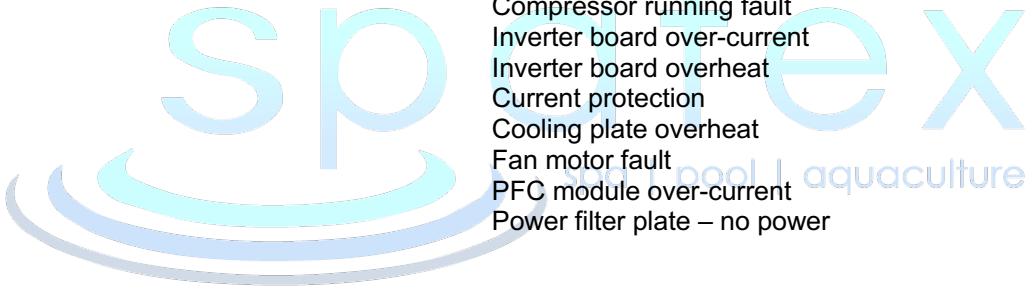
Temperature sensor open circuit
Temperature sensor short circuit
Low flow – press on/off to reset





Sensaheat

E1	Water pressure too high
E2	Water pressure too low / No water pressure
E4	3 phase power error
E5	Input voltage too high or too low
E6	Excessive temp difference between inlet & outlet
E7	Water outlet temp too high or too low
E8	High exhaust temp
EA	Heat exchanger or evaporator overheat
Eb	Ambient temp too high or too low
Ed	Anti-freezing reminder
P0	Controller communication fault
P1	Water inlet sensor fault
P2	Water outlet sensor fault
P3	Gas exhaust temp sensor fault
P4	Evaporator coil pipe temp sensor fault
P5	Gas return temp sensor fault
P6	Cooling coil pipe temp sensor fault
P7	Ambient temp sensor fault
P8	Cooling plate temp sensor fault
P9	Current sensor fault
PA	Reset memory failure
F1	Compressor driver module fault
F2	PFC module fault
F3	Compressor start fault
F4	Compressor running fault
F5	Inverter board over-current
F6	Inverter board overheat
F7	Current protection
F8	Cooling plate overheat
F9	Fan motor fault
FA	PFC module over-current
FB	Power filter plate – no power





Softub topside touchpad error codes & messages

IPS or IP5	Insufficient power supply voltage
LED display flashing	Water too hot or control fault
00	Touchpad connection fault
P01	Heat call exceeds 4 hours without increase in temperature
SP1	Special temp mode set to 40.5C or 41C





SOWO topside touchpad error codes & messages

E0
E1
P1
P2
P3
H1
B1
S1
FF

Temperature sensor short circuit
Temperature sensor open circuit
Pump 1 fault
Pump 2 fault
Pump 3 fault
Heater fault
Blower fault
Low water level
Temperature sensor not connected





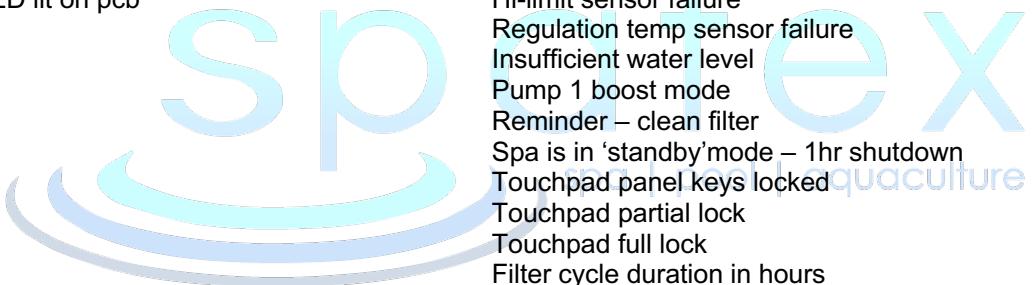
Spa Builders topside touchpad error codes & messages

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
LP
00
--

Start up checks in progress
Insufficient water in heater
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 | pool | aquaculture



Spa-Tech & SpaRelax

& 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 Blue & Grey (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
HPL (and flashing snowflake icon)	Defrost Cycle

C-III Control System – Black (used on Oasis Spas, Classic Spas and others)

E0	Communication Error touchpad to control pack
E1	Temperature sensor 1 fault
E2	Temperature sensor 2 fault
E3	Heat pump temperature sensor fault
E4	Water flow switch open circuit
E5	Input voltage either too high or too low
E8	Heat pump compressor pressure fault
E9	Insufficient water flow
C	Low water temp below 6c
H	High temperature hi-limit 43c
HH	Overheat 47c
PL	Panel locked – press Warm & Cool to unlock
HPL (and flashing snowflake icon)	Defrost Cycle

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

Red, Green, Yellow LED's flashing

LEH

Temperature sensor failed

Insufficient water detected

? 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
OP or OB
SP, SB, SPb
8888

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





Trinity Electronic Labs touchpad error codes & messages

Apollo 11

HEATING	Heater is on
FILTER	Filter cycle on
OVERHEAT	Water temperature above 112 F
FTR ONLY	Heating safety component failure – filtering only
NO FLOW	Insufficient water flow
SENSOR FAILURE	Invalid sensor value
HEATER	Heater not working
TEST	Test mode – press / hold Jets 1 to access
PROGRAM	Program mode – press / hold Jets 1 to access





United Spas topside touchpad error codes & messages

T5 Touchpad

oH	Over heat 48C
Fr	Freeze – temp below 4C
Flo	Flow switch open circuit
Er0, Er1	Regulation temperature sensor failure
Er2, Er3	Hi-limit sensor failure
Fc	Filter Cycle

T7 Touchpad

Fr	Freeze – temp below 8C
SOH	Software Over heat – temp above 45C
HOH	Hardware Over heat – hi-limit above 46C
tS	Temperature sensor error
LS	Hi-limit sensor error
FL	Flow switch open circuit





Valtherm error codes & messages

Models A and C

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



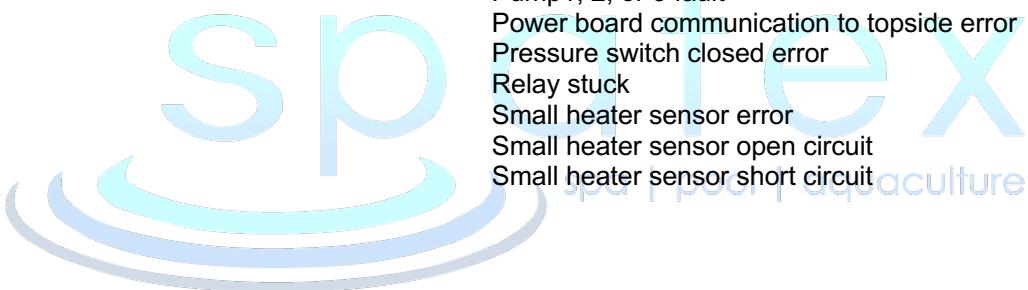


Reflections
Spas

DM Industries

Vita Spas topside touchpad error codes & messages

BJ2P	Purging notification
BLO	Air blower error. Fuse blown or defective blower
BUS	Communication error
CP	Circulation / HEET pump fault
CS	Current sensor error
F1 or F2 or F3 or F4	Fuse 1, 2, 3, or 4 blown
FLO	Pressure switch open – low flow
HC or H1 or H2	Heater error
HILI	Hi Limit senses above 112F / 44C
HP	High voltage observed
HS1	Pump 1 high speed fault
HS2	Pump 2 high speed fault
ICE	Water temp below 50F / 10C
LB or LI	Light fault
LP	Low voltage observed
LS1	Pump 1 low speed fault
LS2	Pump 2 low speed fault
LS	Large water sensor error
LS=O	Large water sensor open circuit
LS=S	Large water sensor short circuit
O3U or O3	Ozonator error
P1 or P2 or P3	Pump1, 2, or 3 fault
Pb or PB or P6	Power board communication to topside error
PS	Pressure switch closed error
REL	Relay stuck
SS	Small heater sensor error
SS=O	Small heater sensor open circuit
SS=S	Small heater sensor short circuit





Water, the Liquid of Life

Waterco topside touchpad error codes & messages

Portapac SSC

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

Digi-Heat Heaters

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





Waterway Plastics topside touchpad error codes & messages

Neo series

Plumbing error	Swap sensors 1 & 3 for flow direction change
Insufficient flow	No water
Low flow	Lack of water flow
Water Overheat	Overtemp 48 degrees reached
Heater Overheat	Overtemp within heater
Potential Freeze	Temp too low – freeze protection enabled
Sensor 1 open	sensor 1 open circuit
Sensor 1 short	sensor 1 short circuit
Sensor 2 open	sensor 2 open circuit
Sensor 2 short	sensor 2 short circuit
Sensor 3 open	sensor 3 open circuit
Sensor 3 short	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



Zeng ZNG Spa Controls

ER2	Sensor A short circuit or water temp over 80 degrees
ER3	Sensor A open circuit or water temp below 10 degrees
ER4	Heater safety sensor short circuit or over 80 degrees
ER5	Heater safety sensor open circuit or below 10 degrees
ER6	Short Jumper/Bridge to determine fault
ER7	Open Jumper/Bridge to determine fault
ER8	Flow switch closed when there is no water flow
FLO	Flow switch open when there is water flow
HL	Hi Limit water temp over 44 degrees
FCL	Filter clean reminder message – clean filters
LOC	Full touchpad lock
3 blinks on display	Partial touchpad lock – can operate pumps, blower, light
3 horizontal lines on display	General / Technician's lock

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

Whilst we endeavour to ensure codes and messages listed above are correct, we cannot be held responsible for the accuracy of the information listed. The data above has been collated over many years from hundreds of sources assumed to be correct.

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