Australian Spa Parts

Spa Touchpad Error Messages & Codes

Revision 10.0, 29 Sept 2015

The messages and codes listed here are a combination of error, operational and reminders
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 technicians – we can provide access to **full diagnostic manuals** covering these messages & codes, 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 fault codes

Flow/Pressure switch open – dirty filters, blockages, switch failure, low water level, pump failure.
Flow/Pressure switch closed – switch failure, pump relay stuck
Hi-Limit fault – dirty filters, blockage, low flow, sensor fault, failed pump – senor reads 45C+ / 112F+
Temperature sensor fault – sensor failed, low flow
Over heat fault – Same as sensor fault, pump not running, relay failed – sensor reads 38-45C / 100-112F

Spa touchpad messages and codes are listed for various models from the following brands:

in.xe (and in.xe swim spa) , in.ye and in.yj
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 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/Stuck relay
Lxx	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
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-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)

in.xm2

rH-Id	No match between heater and pack models
Hr / HR	Hardware error detected / stuck relay / thermal fuse
HL	Hi-Limit circuit tripped 50c
OH	Overheat. Water temp at 44.5c
rH-nC	Communication error – heater to pack
Pr-r	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 – 1st 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

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

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

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 disconected
pH	pH error – pH above 8.2
- - - -	Damaged PCB processor
Spa light flashing	Error code/condition present

M7 messages

- - - or - -	Temperature not available
- - F, - - C, or - -	Temperature not available - priming
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, 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, 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
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, Fl	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 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	Low or high voltage condition
LED orange flashing 'Jets / Pump' indicator	Loss of prime. Pressure switch open
LED red flashing – 3 flashes	PCB fault

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	Something is wrong with the pump
E01	System Error
E02	No water flow
E03	Water temperature below 4 degrees C
E04	Water temperature too high
E05	Pump fault
End	System stops after 72 hrs operation. Press 'Unlock' 3 secs

BRETT AQUALINE, INC.

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	48 degrees Overtemp
Orange 98 & Red 104	Low Flow error
Red 102 & Red 104	Temperature Sensor fault
Orange 100 & Red 104	Hi-Limit Sensor fault

CalderaSpas®
Pure Comfort

'TEMP' flashing	Pressure switch or temperature sensor failed
_ _ _ _ flashing	Hi limit tripped
_-_-_-_	Pressure switch open circuit
_ _ _ _	Pressure switch closed circuit (jets operate)
_ _ _ _	Hi Limit tripped (spa inoperative

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

Chinese brand - Unknown

HEAT	Hi-limit over 45c
ICE	Water temperature below 5c
CLDF	Circulation pump problem / flow problem
E1, FF	Temperature sensor failure
Water pump or tap ICON flashing	Water level too low
Thermometer ICON flashing	Low flow

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

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 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

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

ELECRO

FLUID DYNAMICS

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

ETHINK   **Laguna Bay Spas**   **ENERGYSAVER SPA EQUIPMENT**

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
Eln	Auto moisturizing overtime
InF	System is moisturizing
out	Auto drainage process is running

FASCO

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

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

Class Series

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	Touchpad partial lock
LocF	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

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

'Ready' & 'Power' Logo lights flashing	Pressure switch open circuit
'Power' blue light flashing	Hi limit fault
'Ready' green light flashing	Temperature sensor fault

'Ready' icon flashing	Control sensor open or short circuit
– – – –	Hi limit
=:=:=:=	Pressure switch open circuit
= = = =	Pressure switch closed circuit

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

PS	Pressure switch failure
SH	Shorted sensor
OP	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™

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

MEGASTORE infinity

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

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

LaMotte ColorQ

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'

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

 Maddox Enterprises, Inc

-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

HEF	Heater failure
FEF	Filter failure
BBF	Bubble failure
SPL	Temp below 0c – Freeze condition
SPH	Abnormally high temperature detected

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

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

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

 LX Series

SN1	Hi-limit sensor failure
SN2	Temperature sensor failure
FL1	Flow / pressure switch open circuit
FL2	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 deactivat

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 (used on Oasis)

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

SPA2GO   **SPA-N-A-BOX**

EN1 / OH   Sensor 1 failure
EN2   Sensor 2 failure

SPLASH POOL ACCESSORIES SPA

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

Sundance Spas

ILOC   Interlock failure
FLO   Flashing - flow switch open, solid – closed
FLO2   Flow switch closed circuit
Hold   Touchpad buttons pressed too frequently
HOT   PCB temperature too high
ICE   Freeze condition detected
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

TECMARK CORPORATION TDi

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

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

 DM Industries

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	Fuse 1 or fuse 2 blown
FLO	Pressure switch open – low flow
HC	Heater error
HILI	Hi Limit senses above 112F / 44C
HP	High voltage observed
ICE	Water temp below 50F / 10C
LB	Light error
LP	Low voltage observed
LS	Large water sensor error
LS=O	Large water sensor open circuit
LS=S	Large water sensor short circuit
O3U	Ozonator error
P1 or P2	Pump1 or pump 2 error
Pb	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

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

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
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

If you think our listing is incomplete, please feel free to email information for inclusion to sales@spaparts.com.au