



DAVEY



SPA CONTROLLER PRODUCT GUIDE

Davey SpaPower | JANUARY 2021

Dependability that keeps you in control



SP400 Spa Pool Controller

- > The Davey SpaPower SP400 offers great functionality in a convenient 2-piece package.
- > Perfect for controller retrofits and spas where space is at a premium
- > Available in 1.5kW and 2.0kW element sizes
- > Controlled by a rectangular spa side touchpad with an easy to read display that is simple to use. All you need to do is sit back, relax and enjoy your spa
- > Rectangular touchpad sold separately
- > Optional timeclock is available



SP601 Spa Pool Controller

- > The Davey SpaPower SP601 offers great functionality in a practical and cost effective package
- > Designed to run a single or two speed pump, variable speed blower, circulation pump, sanitiser system and a single or variable coloured light with up to 6 additional POL daisy chain lights
- > Available in 1.5kW, 2.0 and 3.0kW heater element sizes
- > Controlled by a spa side touchpad with an easy to read display that is simple to use. All you need to do is sit back, relax and enjoy your spa
- > Optional timeclock is available



SP800 Spa Pool Controller

- > The Davey SpaPower SP800 offers additional features over the SP601
- > Supplied as a multiphase unit the SP800 can operate on either single phase power (220/240V) or three phase power (380/415V). It can run up to three pumps (single or two speed), single or variable speed blower, circulation pump, sanitation system and a range of LED lighting options
- > Available in 2.0 and 3.0kW heater element sizes
- > Up to 60 individual POL daisy chain LED lights can be run from the SP800 for a spectacular display of colour around your spa
- > Optional in-pool temperature sensor available
- > Controlled by a multilingual LCD spa side touchpad, the SP800 offers full programmability at your fingertips
- > Optional secondary spa side touchpad available



SP1200 Spa Pool Controller

- > The Davey SpaPower SP1200 is the most capable in the range with the functionality to manage increased demands for large spa pools and swim spas
- > The SP1200 fitted with a 3.5kW heater is a single or multiphase whilst the SP1200 with 4.5kW or 6.0kW heaters are single phase only
- > Capable of running up to five pumps (single or two speed), single or variable speed blower, circulation pump, sanitation system and a range of LED lighting options
- > Up to 60 individual POL daisy chain LED lights can be run from the SP1200 for a spectacular display of colour around your spa
- > Controlled by a multilingual LCD spa side touchpad, the SP1200 offers full programmability at your fingertips
- > Optional secondary spa side touchpad available
- > Supplied with in-pool temperature sensor for greater control over your spa temperature
- > For applications where even, greater capacity is required an optional Expander pack is available which increases the number of outputs as well as raising the maximum load to 70amps



Features by controller

FEATURES	SP400	SP601	SP800	SP1200
Multilingual LCD Touchpad: English, French, Dutch, German, Portuguese, Spanish and Japanese	✗	✗	✓	✓
Oval LCD Touchpad	✗	✗	✓	✓
Rectangular LCD Touchpad	✗	✗	Optional	Optional
Oval LED Touchpad	✗	✓	✗	✗
Rectangular LED Touchpad	✓	Optional	✗	✗
Auxiliary Touchpad	✗	✗	Optional	Optional
In-pool Temperature Sensor	Optional	Optional	Optional	✓
AMP Plug Connectors	✓	✓	✓	✓
220/240VAC Outputs	5	6	6	8
Switched 12VDC Outputs (combined 1A max. with constant 12VDC output load)	✗	✗	1	1
LED Light Outputs	1	1	4	4
Number of single POL's that can be connected	6	6	60	60
Expander Pack to increase maximum load to 70 Amp	✗	✗	Optional	Optional
24hr Circulation Pump	✓	✓	✓	✓
Dedicated Sanitiser Output	✓	✓	✓	✓
Digital Time Clock	Optional	Optional	✓	✓
Variable Speed Pump Capability	✗	✗	✓	✓
Variable Speed Blower	✓	✓	✓	✓
Audio Capability	✗	✗	✓	✓
Patented Optical Water Sensor	✓	✓	✓	✓
Safety Thermal Cut-out	✓	✓	✓	✓

Touchpads to suit



LCD **Oval** Touchpad



LCD **Rectangle** Touchpad



LED **Oval** Touchpad



LED **Rectangle** Touchpad

Technical information

PRODUCT SPECIFICATIONS				
Models	SP400P Range (1.5kW, 2kW)	SP601 Range (1.5kW, 2kW, 3kW)	SP800 Range (2kW, 3kW)	SP1200 Range (3.5kW, 4.5kW, 6kW)
Dimensions (controller)	198 x 150 x 90 (mm)	220 x 360 x 95 (mm)	220 x 360 x 95 (mm)	310x 360 x 95 (mm)
Dimensions (touchpad oval)	112 x 49 x 4 (mm)	112 x 49 x 4 (mm)	172 x 91 x 5 (mm)	172 x 91 x 5 (mm)
Dimensions (touchpad rect)	118 x 65 x 6 (mm)	118 x 65 x 6 (mm)	172 x 91 x 5 (mm)	172 x 91 x 5 (mm)
Diameter - heater tube	40 or 50 (mm)	50 (mm)	50 (mm)	50 (mm)
Heater pressure (max)	300kPa (31m)	300kPa (31m)	300kPa (31m)	300kPa (31m)
Temperature control (max)	41.5°C	41.5°C	41.5°C	41.5°C
Temperature - max ambient	40°C	40°C	40°C	40°C
Optional low flow heater (patented)	-	✓	✓	✓
Mains Lead length	5 (m)	5 (m)	5 (m) (15A only)	N/A (hardwired)
Touchpad lead length (m)	3 (m)	3 (m)	10 (m)	10 (m)
Optional 10m versions available	✓	✓	Standard	Standard
Light - Davey SpaPower range	-	1	4	4
Chain Lighting System	1 Main light and 6 POL LEDs	1 Main light and 6 POL LEDs	Main light + 60 LEDs	Main light + 60 LEDs

Note: Contact your Davey representative for further information on their patented low flow heater technology.

SUPPLY REQUIREMENTS (MAX. LOADING)				AVAILABLE OUTLETS				
Controller Range	Model	Maximum Load (Amps)	Heating (kW)	Outlet	SP400P	SP601	SP800	SP1200
SP400P	Q400PAU-10	10	1.5	Pump 1A - 10A (single or two speed)	✓	✓	✓	✓
	Q400PAU-15	15 / 16	2	Pump 1B - 10A (single speed)	✗	✗	✓	✓
SP601	Q601AU-15	10	1.5	Pump 2A - 10A (single or two speed)	✗	✗	✗	✓
	Q601AU-15T	10	1.5	Pump 2B - 10A (single speed)	✗	✗	✗	✓
	Q601AU-20	15 / 16	2.0	AUX - 10A (extra pump or blower)	✓ Note 1	10A	10A	10A
	Q601AU-20T	15 / 16	2.0	SPVSB - 7.5A (SpaPower variable speed blower)	✓ Note 2	✓	✓	✓
	Q601AU-30	15 / 16	3.0	Circ Pump - 2.5A (circulator pump)	✓	✓	✓	✓
	Q601AU-30T	15 / 16	3.0	Ozone - 2A	✓	✓	✓	✓
SP800	Q800AU-20	16 / 40	2.0					
	Q800-30	40*	3.0					
SP1200	Q1200-35PH3	40*	3.5					
	Q1200-45	40	4.5					
	Q1200-60	40	6.0					

Note 1: If 2 speed pump is fitted, AUX cannot be connected.

Note 2: If AUX is not connected.

Installation of these products must comply with local electrical standards. The product specification should be confirmed by a Davey Authorised Technician to ensure correct loading of the product and power supply available is not exceeded.

Load shed settings can be modified to accommodate lower load requirements. However, other regulations may limit the maximum current depending on local electrical supply regulations.

For higher load applications when using SP800 or SP1200 an Expander Box (Q1200EXP) will provide two additional 15amp outputs.

Note: Expander Box requires an additional 30amp power supply.

*Q800-30 and Q1200-35PH3 are able to be connected to 3 phase supply. Maximum current draw per phase 16 Amps.

Contact Davey Water Products for further information.



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This literature is not a complete guide to product usage. Further information is available from your Davey Dealer, Davey Support Centre and from the relevant product Installation and Operating Instructions. Must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.
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