

LOGIC SP-STP-TP

VARIABLE FREQUENCY DRIVE

The **Logic SP-STP-TP series**, by Trevi Engineering, is a pump management range that controls and protects surface pumps and submersible pumps. These controllers integrate the energy improvement efficiencies of variable frequency drive technology within a simple to use, plug and play, module while maintaining pressure and flow in a system. In addition to the day to day savings of reduced energy consumption, further economies are made during install as pressure sets fitted with a Logic controller do not require expansion tanks, check valves, pressure gauges or expensive control panels. When used on multi-pump booster sets, they will provide an integral and automatic pump changeover to guarantee even wear of the pumps, reducing the risk of pump failure and costly downtime. The pumps will operate at a variable speed to ensure the correct flow of water at the set pressure.

Housed within a robust thermoplastic casing, Logic is water cooled which enables costly dry running situations to be detected and then prevented. The effects of water hammer are also reduced. Set up and adjustment is fast and easy, with one page of instructions enough for installation, programming and maintenance. There is also a list of status codes to interpret system faults. To commission, just input the amp rating of the pump with the required pressures and the system is ready. The user friendly digital display indicates all the necessary data to check a system instantly and, in the case of a fault, understand the problem (from the status code indicated) without physical intervention of the system.

Two versions of each model are available: the standard model is for single pump control while the **Logic SP-STP-TP (COM)** is for multiple pump control and is equipped with interface and communication cable to enable communication between each controller. Each controller is supplied with 1.5 metres of cable for connection to the mains supply and 1.5 metres of cable for connection to the pump. Each version is available as part of a package within a pressure set or a booster set (contact our sales department for more information).

- Domestic property
- Commercial property
- Building services
- Processing
- Rainwater harvesting
- Water distribution



Logic VFD controller

model	SP 8.5	SP 11	SP 13	STP 8.5	STP 11	TP 6	TP 9	TP 12	TP 16
Voltage/Motor (phase)	single - single	single - single	single - single	single - three	single - three	three - three	three - three	three - three	three - three
Mains voltage (phase - volts)	1 - 230	1 - 230	1 - 230	1 - 230	1 - 230	3 - 400	3 - 400	3 - 400	3 - 400
Voltage fluctuations (+/- %)	15	15	15	15	15	15	15	15	15
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Maximum pump current (amps)	8.5	11.0	13.0	8.5	11.0	6.0	9.0	12.0	16.0
Maximum pump motor power (kW/HP)	1.3/1.7	1.5/2.0	2.2/3.0	1.9/2.5	2.2/3.0	2.2/3.0	3.0/4.0	5.5/7.5	7.5/10.0
Soft start	yes	yes	yes	no	no	no	no	no	no
Maximum operating pressure (bar)	16	16	16	16	16	16	16	16	16
Adjustable system pressure (bar)	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12
Adjustable cut-in pressure (bar)	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11
Minimum flow (ltrs/min)	1	1	1	1	1	1	1	1	1
Maximum operating temperature (C)	60	60	60	60	60	60	60	60	60
Protection (IP)	65	65	65	65	65	65	65	65	65
Digital manometer	yes	yes	yes	yes	yes	yes	yes	yes	yes
Digital ammeter	yes	yes	yes	yes	yes	yes	yes	yes	yes
Dry run protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Timed auto re-arm	yes	yes	yes	yes	yes	yes	yes	yes	yes
Anti-jamming function	yes	yes	yes	yes	yes	yes	yes	yes	yes
Protection fuse	yes	yes	yes	yes	yes	yes	yes	yes	yes
Short circuit protection between phases	yes	yes	yes	yes	yes	yes	yes	yes	yes
Short circuit protection between phases & earth	yes	yes	yes	yes	yes	yes	yes	yes	yes
Over current protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Voltage surge protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Over temperature protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Pressure sensor fault protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Remote ON/OFF connection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Float/ probe switch control connections	yes	yes	yes	yes	yes	yes	yes	yes	yes
Remote alarm connection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Accumulation	yes	yes	yes	yes	yes	yes	yes	yes	yes
Check valve	yes	yes	yes	yes	yes	yes	yes	yes	yes
Pipe connections - factory fitted (BSPM)	1" x 1"	1¼" x 1¼"	1¼" x 1¼"	1" x 1"	1¼" x 1¼"	1¼" x 1¼"	1¼" x 1¼"	1¼" x 1¼"	1¼" x 1¼"
Pipe connections - interchangeable (BSPM)	1¼" x 1¼"	1½" x 1½"	1½" x 1½"	1¼" x 1¼"	1½" x 1½"	1½" x 1½"	1½" x 1½"	1½" x 1½"	1½" x 1½"
Dimensions w x l x h (mm)	260x285x312	260x285x312	260x285x312	260x285x312	260x285x312	260x320x312	260x320x312	260x320x312	260x320x312
Weight (kgs)	5.00	5.00	5.00	5.00	5.00	7.00	7.00	7.00	7.00
Price (£) - single device control version	505.00	579.00	664.00	606.00	675.00	774.00	1,021.00	1,095.00	1,201.00
Item code	20-40-1016	20-40-1017	20-40-1007	20-40-1021	20-40-1020	20-40-1002	20-40-1001	20-40-1010	20-40-1012
Price (£) - communication "COM" version	550.00	623.00	709.00	651.00	720.00	819.00	1,066.00	1,140.00	1,245.00
Item code	20-40-1008	20-40-1013	20-40-1022	20-40-1019	20-40-1003	20-40-1006	20-40-1000	20-40-1015	20-40-1018
code	1	1	1	1	1	1	1	1	1