

LevelMASTER dual pump level control

The LevelMASTER controller provides level control for single or dual pump operations via floats or probes.

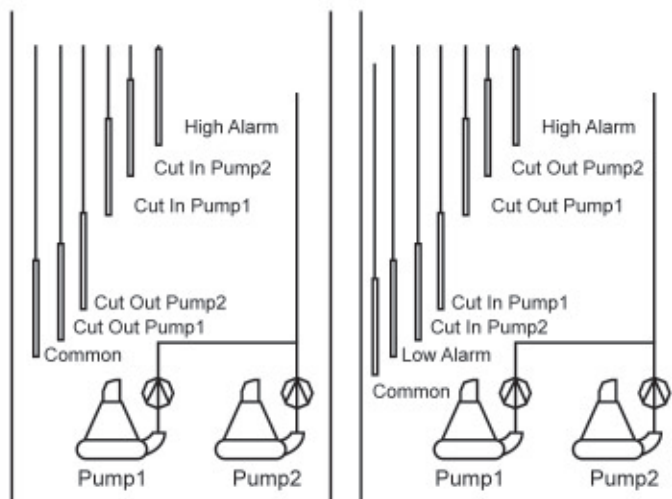
Featuring simple 'flick of a switch' operation, the LevelMASTER controller is without doubt the most intelligent, easy-to-use level controller available. It applies advanced technology specifically designed for sump pumping and tank applications. With it, users can alternate between resistive level probes and float switches as well as emptying and filling operations instantly.

Features include:

- System status via Pilot Light display
- Suitable for use with any type of pump
- Adjustable delay timers for on and off conditions which maintain operation in turbulent water
- Adjustable sensitivity for use with varying water conditions
- Selectable operation via probes or floats
- Selectable fill or drain application
- Level indication via LED's on the LR6 Level Relay

System Operation

The LevelMASTER controller can be customised to suit specific applications via a range of adjustable settings and options.



Sump / Tank Empty Application

Tank Fill Application



Other benefits include:

- Dual duty / duty standby operation
- Adjustable start & stop delays for correct operation, reduced pump cycling and ignoring water turbulence
- Adjustable sensitivity levels to ensure correct operation for sump and bore hole applications as well as varying water conditions and long cable runs
- Automatic rotation of lead / duty pump to equalize hours run per pump
- Dual tank operation
- Depth indicator lights
- Telemetry outputs for pump start/stop, system fault and any pump run
- Selectable options for additional pump protection and external communications
- Standard switchboard IP65 with inner door
- Suitable for a wide range of power supplies
- Customised switchboard options to suit application
- Unique design allows the control cables to run parallel with the motor cable without induction effects

Applications

Market

- Waste water / sewage
- Mechanical services
- Hydraulic services
- Industrial/process

Control Applications

- Level probe or float operation
- Tank filling / draining
- Sump draining
- Sewage pump stations

Setting	Range
Operation mode selector	Fill or empty
Input type selector	Probe or float
Low level input	Alarm or fault
Pump 1 cut in	Start level pump 1
Pump 2 cut in	Start level pump 2
Pump 1 cut out	Stop level pump 1
Pump 2 cut out	Stop level pump 2
High level input	Alarm or fault
Cut in delay	0 to 250 seconds
Cut out delay	0 to 250 seconds
Sensitivity adjustment	0 - 9 / 0 - 100k ohms

System Protection

The LevelMASTER offers a range of advanced protection facilities, designed to ensure all pumps remain operational and avoid downtime.

Other features include:

- Dual duty/duty standby operation
- Low level and high level protection with selectable shutdown options
- Random starts selection to eliminate scum build-up within the supply tank
- Pump run and fault indication lights
- Ability to rotate pump use on each start-up to help maintain equalled running hours while ensuring all pumps remain operational
- Adjustable delay timers for on and off conditions which maintain operation in turbulent water (ignoring water bounce)
- Standard external flashing light
- Dual pump lead lag operation.
Pump 1 and Pump 2 alternate for lead and lag operation. If the lead pump cannot keep up with the inflow then the lag pump will start to assist the lead pump.
- Dual pump duty/standby operation.
Pump 1 and Pump 2 alternate for lead operation. If the lead pump fails then the second pump takes over
- 4 x programmable selector switches to allow system customisation

Specifications

Item	Description
System power supply options	Single phase 240 VAC 50-60Hz, 110VAC 50-60Hz Three phase 415VAC 50-60Hz 24VDC or VAC
Control power supply options	11 to 35VDC 12 to 24VAC 185 to 265 VAC
EMC/EMI filtering	Designed to minimize conducted and radiated emissions
Output relays	6 x 3 amp fixed operation with selectable control voltage 4 x fixed operation with voltage free contacts
Switched inputs	6 x switched conductive sensing 10V
Operating temperature	0 to 60 deg C non-condensing
Enclosure protection	IP65 - NEMA 12 tamperproof

Product performance, specifications or design may change without notice.

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Techsys Corporation is an Australian owned and operated company specialising in the design and manufacture of pump control technology and complete packaged systems.
Email: sales@techsys.com.au

Techsys Corporation Pty Ltd
ABN 16 005 641 412
21 Nicholas Dve,
Dandenong Sth, Vic 3175 Australia.
Ph: (03) 9706 5311 Fax: (03) 9706 5870