GORILLA PUMP STATIONS

Further and Faster

High-Pressure King Koba

Code: KK1300-10

A powerful high-pressure pump matched with a tough certified tank makes the ideal solution for high-pressure sewer mains. Available with a float switch or a sensor.

1300L 'King Koba' Certified Tank

- **AS/NZ 4766, 3500 and 1546.1 Approved Tank**
- **2070mmx1020mm . 75kg**
- **Ribbed Tank** for strength and anchoring in-ground
- **Rounded Base** collects sediment for effective removal
- **Smooth Internal Finish** for easy cleaning
- **Tough construction**
- **Plastic lid** (steel lid available upon request)
- **Hydraulic uplift anchoring drawings available**
- **Undrilled for plumber convenience**

Inlet, outlet and pump chain supplied. Plumber to supply ball-type non-return valve and pipework to suit application.

1.5HP 'Growler' High-Pressure Pump

Code: 240-GRP150M

Switch Genie Pump Controller

Code: 228-SG-30 SF

Single pump controller panel. Provides power surge and run-dry protection.

High-Level Alarm

Code: 228LSKIT

Light and buzzer sounds when pre-set height reached.

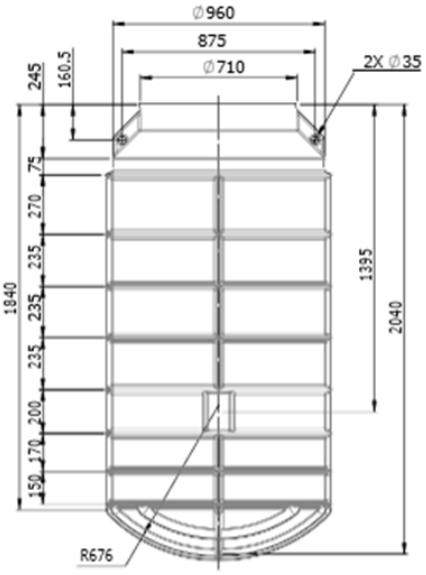
Two-year warranty on pump, alarm and controller

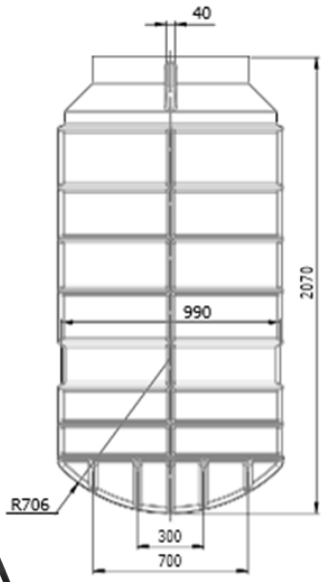
www.gorillapumpstations.co.nz

GORILLA PUMP STATIONS

Further and Faster

High-Pressure King Koba





OPTIONS AVAILABLE

KK1300-10 H/P FLOAT

With Automatic Float-Switch (Code: 228-TRDF-710)

KK1300-10 H/P SENSOR

With Hydrostatic Sensor (Code: 228-PRW-05)

KK1300-10 TIMER CONTROLLER

Extra: Battery Pack Timer System (228-SG20-2)

Two-year warranty on pump, alarm and controller

Visit website for full warranty information.

www.gorillapumpstations.co.nz

GORILLA PUMP STATIONS

Further and Faster

High-Pressure Pump System

1.5HP High-Pressure Pump

Code: 240-GRP150M

- Up to 90m head
- 1.1KW motor

Switch Genie Single Pump Controller

Code: 228-SG-30 SF

- With audible alert for blockages
- Power surge and dry-running protection

Hydrostatic Sensor

Code: 228-PRW-05

- Can be set for custom specifications

High-Level Alarm

Code: 228LSKIT

- Complete with float and power lead

Two-year warranty on all components

www.gorillapumpstations.co.nz

GORILLA PUMP STATIONS

Further and Faster

High-Pressure Pump System

Single Pump Control Unit

228-SG-30 SF

- Adjustable start-stop times
- Includes a ‘run-dry’ alert.

Two-year warranty on all components

www.gorillapumpstations.co.nz

Eco Water Solutions

PO Box 18 Foxton Beach
021 745 335
www.gorillapumpstations.co.nz

GORILLA PUMP STATIONS
Further and Faster

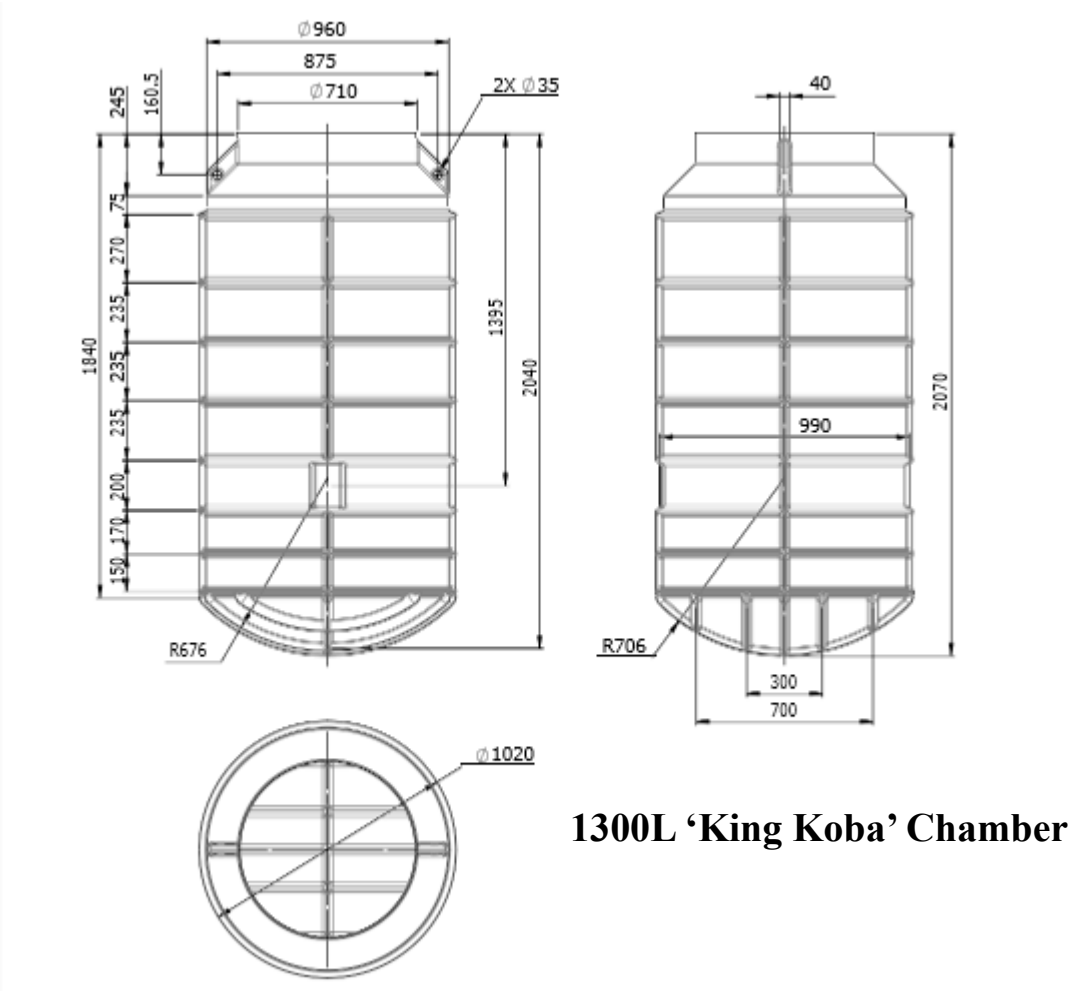
'The King Koba' High Pressure 1300 Litre Sewage Pump Station

AS/NZ 4766, 3500 and 1546.1 Approved Tank

Installation Instructions

Thank you for purchasing an Eco Water Solutions 'King Koba' high-pressure sewage tank and pump unit.

Connections are supplied undrilled so that they can be positioned anywhere on the top half of the tank to suit site conditions. Extra pipe is included for different setouts.



1300L 'King Koba' Chamber

Minimum of 600mm of Concrete Anchor Required for Ballast. Concrete should be 1300mm diameter.

Unpacking
The tank is made of 'virgin plastic' polypropylene. It is supplied with one carton containing valve pipework with hose for easy customer setup.

The pump is supplied loose packed in a separate carton.

Check that the pump is the required unit and inspect for any damage to tank and fittings.

Visit www.gorillapumpstations.co.nz for a range of pump configurations

Outlet connection
Using a holesaw, cut hole for outlet tank connector to suit your requirements.

Inlet Connection
Using a 120mm holesaw, cut hole for inlet at a height that suits your plumbing requirements.

Assembly
When fitting the 110mm o.d. sewer pipe into the sealing ring, it is best to apply soapy water to the ring, to ease insertion of the pipe.

Screw the discharge pipe and non-return valve assembly into the pump outlet.

Lower the pump into the tank using the chain, and then Hang the chain on the tek screw provided to side of tank

Do not use the power cable to lift the pump.

After placing the pump and pipe in the tank, connect the Pipe union to the outlet pipe.

Connect the isolating ball valve to the outlet pipe outside the tank.

Ensure that the pump is centred in the tank, and that the float switch is free to move up and down without obstruction.

***Read the pump instruction manual supplied with the pump*.**

Please refer to the tank manufacturer's installation instructions attached for full installation details

For high water tables or soft soil substrates strapping should be attached from dead weight over the top of the tank from the two tie-down points as per manufacturer's instructions. For this information, visit www.promax.co.nz

Venting Installation.

Vent in accordance with Local Council Regulations

Cable Installation

An RCD (residual current device) must be used with this product!

All pumps and alarms must be installed by a certified electrician in accordance with New Zealand standards.

50mm conduit ducting pipe must be used as conduit for electrical cable to ensure ease of installation and maintenance.

>> *Never lift the pump by the cable, as that will damage the pump. Always lift using the handle and/or chain on top of the pump.*

Maintenance

- Tank requires regular checks to ensure no fat or oils have formed at the top of the chamber. **If not regularly checked the float may malfunction which will invalidate warranty.**
- Tank requires checking for solids build-up. Installation is required by a registered plumber.
- Check regularly for build-up of solids or any other matter in pump chambers.
- Periodically wash down the inner walls of the chamber with a high-pressure hose to activate pump and thus flush out the chamber.
- Check that the vent pipe is also clean and free of any obstruction.

Please check on our website (www.gorillapumpstations.co.nz) for warranty conditions.

Read the pump instruction manual supplied with the pump.

DAVIES PUMPS
SINCE 1931

DAVIES GRP GROWLER High Pressure Pump

2 Year Warranty

Data Sheet

DAVIES GRP GROWLER

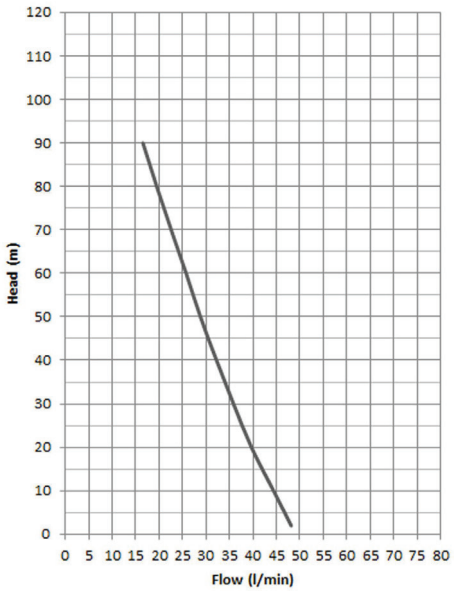
Dear Client

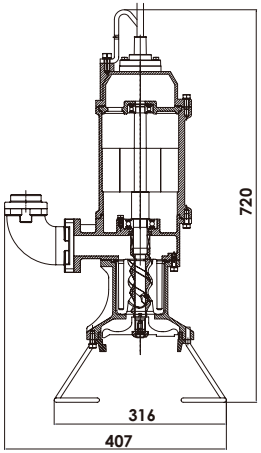
Congratulations on your purchase of a quality pump from the Davies range of pumping products.

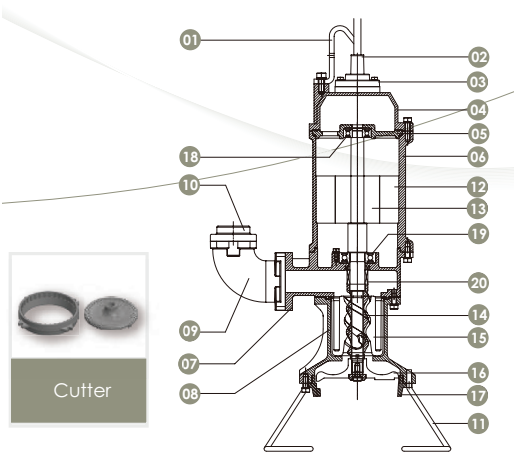
Like all Davies products, quality and reliability is first and foremost, carefully chosen from manufacturers worldwide to carry this proven brand name and deliver years of service. Please check your pump for any physical damage during transit and advise your supplier if so. Check the name plate to make sure the pump is what you ordered.

The longevity of your pump largely depends on the application and the environment it is working in, make sure it is the correct type of pump for the application and it has been sized correctly to meet your required duty.

Specification												
Model	Output		Outlet		Max	LPM Flow@Head					Dimension	Weight
	HP	KW	mm	inch	Flow (LPM)	10m	20m	30m	40m	50m	LxWxH (mm)	Kg
GHP150	1.5	1.1	32	1"¼	50	45	37	32	25	20	407x316x720	40

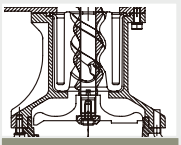






Cutter

All solids can grind into fine pieces to pass easily through the pump



Non-jamming grinder: low-speed & high torque

50Hz: 1450RPM
60Hz: 1750RPM

High Head

Construction

No.	Description	Material	No.	Description	Material
1	Handle	Steel Plated	11	Base	SUS 304
2	Cable Gland	NBR	12	Stator	Laminated Steel
3	Cable Cover	FC200	13	Rotor	SUS 410
4	Top Cover	FC200	14	Screw Rotor	SUS 304
5	Bearing Cover	FC200	15	Bastomer Stator	NBR
6	Motor Housing	FC200	16	Cutter	SUS 440
7	Pump Casing	FC200	17	Cutter Ring	SUS 440
8	Cutter Seat	FC200	18	Bearing	
9	Elbow	FC200	19	Bearing	
10	Flange	FC200	20	Mechanical Seal	SIC/SIC

ARGON
DISTRIBUTORS LTD

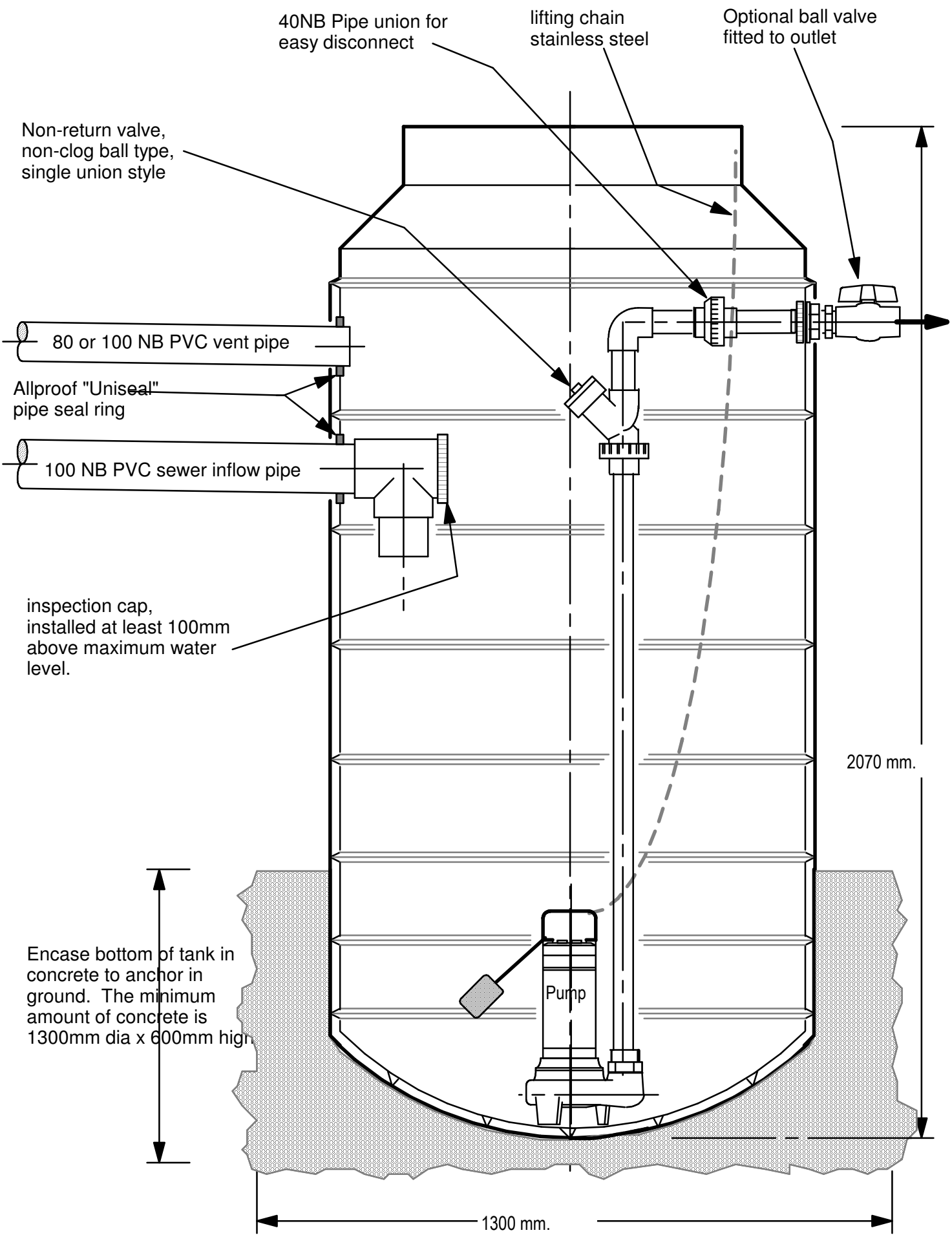
argondistributors.co.nz

Promax 1300L Pump Chamber Specs

Model	**UXCH01300BK**
Capacity	**1300L**
Material Type	**LLDPE**
Lid Type	**600mm Plastic or Cast**

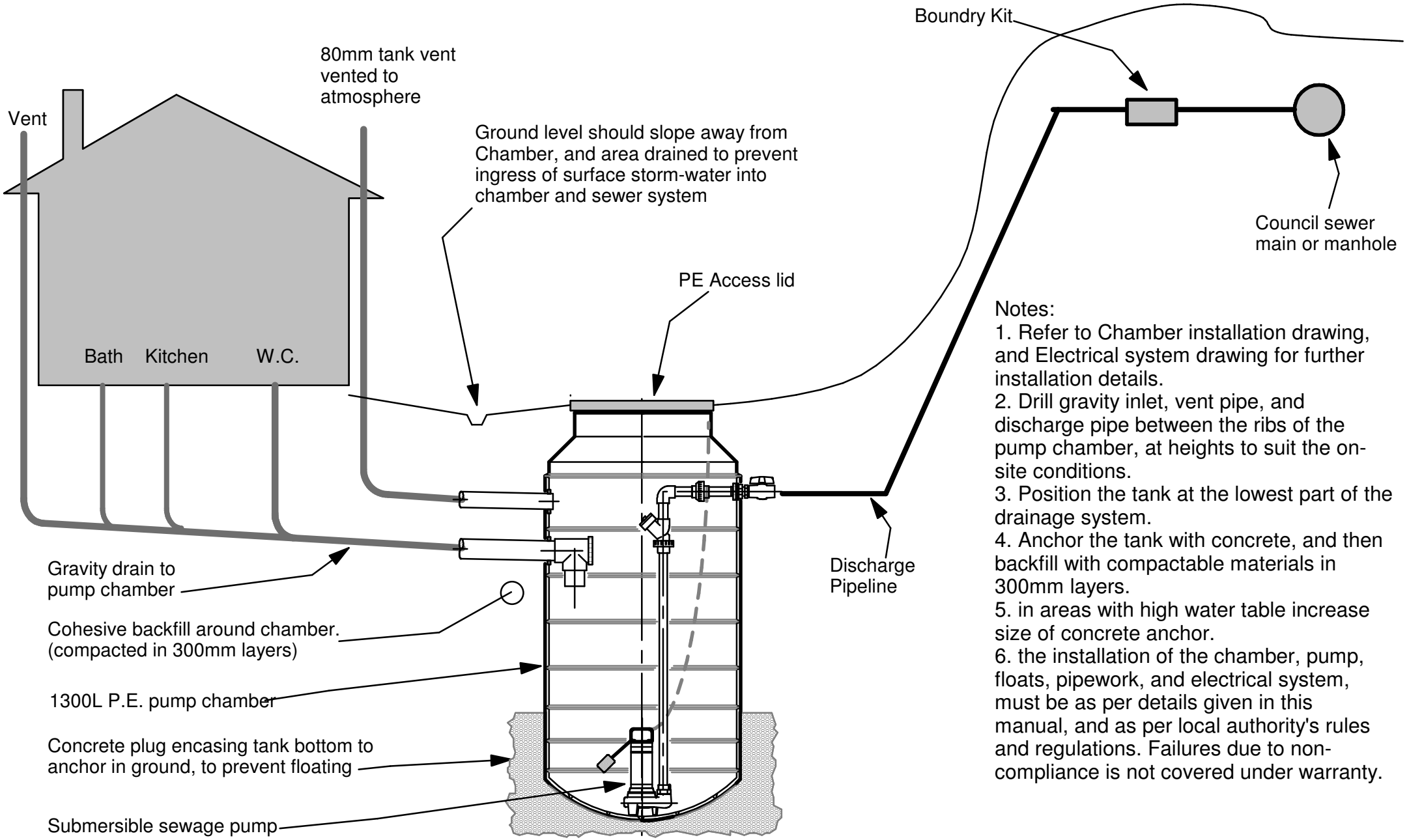
Standard Manufactured Too AS/NZS 3500 & 1546.1

Phone 09 407 3575
Email sales@promax.co.nz
389 Waipapa Rd., Waipapa
Kerikeri PO Box 749, Kerikeri 0245
www.promax.co.nz



Typical Installation drawing for King Koba 1300L Pump Chamber

Date: Oct 2025
Scale 1:10
Drg # KK1300A



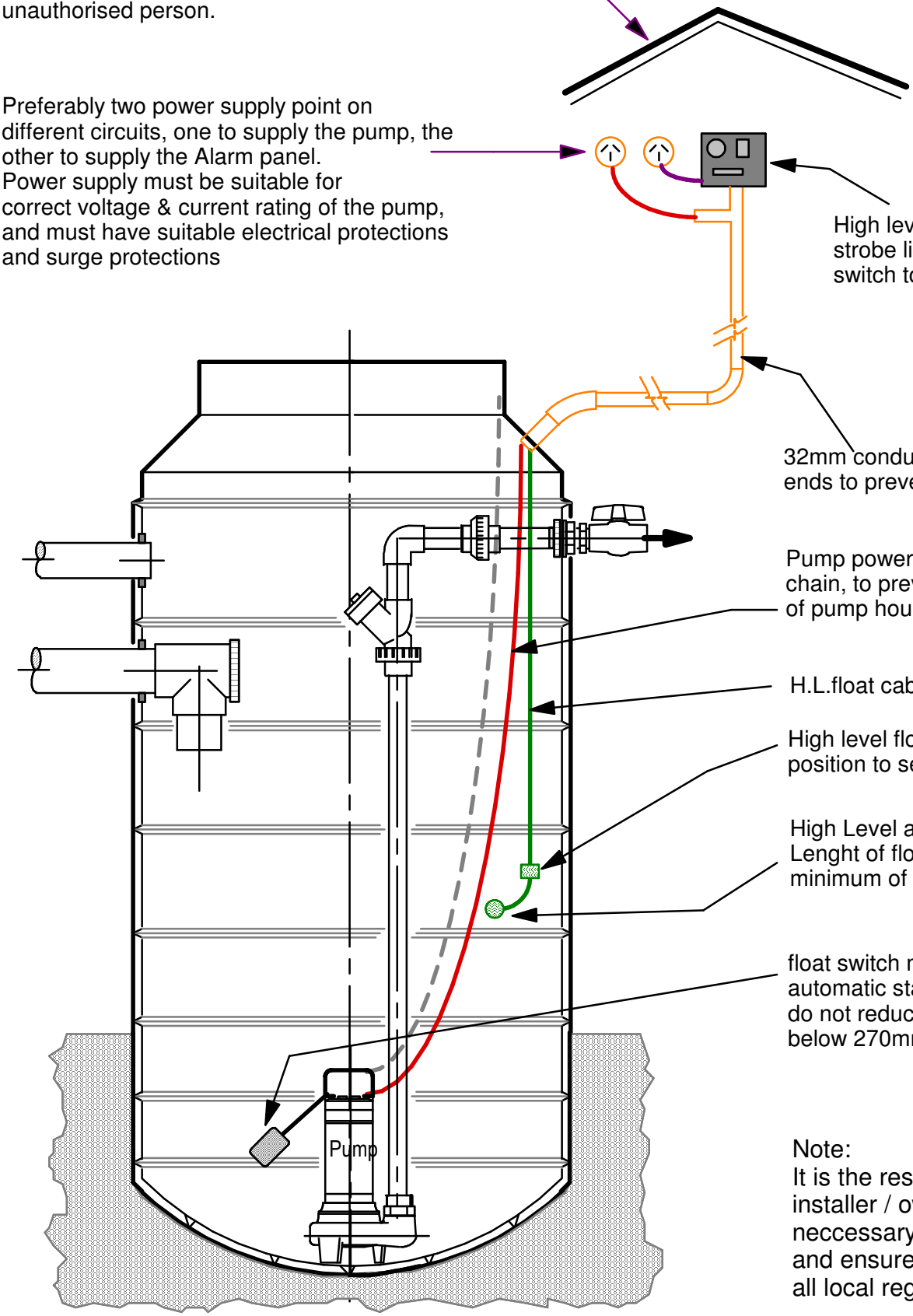
Notes:
1. Refer to Chamber installation drawing, and Electrical system drawing for further installation details.
2. Drill gravity inlet, vent pipe, and discharge pipe between the ribs of the pump chamber, at heights to suit the on-site conditions.
3. Position the tank at the lowest part of the drainage system.
4. Anchor the tank with concrete, and then backfill with compactable materials in 300mm layers.
5. in areas with high water table increase size of concrete anchor.
6. the installation of the chamber, pump, floats, pipework, and electrical system, must be as per details given in this manual, and as per local authority's rules and regulations. Failures due to non-compliance is not covered under warranty.

Typical Plumbing schematic for King Koba 1300L Pump Chamber

Date: Oct 2025
Scale n.t.s.
Drg # KK1300B

Pump power supply and high level alarm panel must be installed in a Dry, Moisture Free, and Weatherproof location, protected from U.V., with easy access for operation, maintenance, servicing and repairs. The unit must be properly secured in position, and must be restricted from entry by an unauthorised person.

Preferably two power supply point on different circuits, one to supply the pump, the other to supply the Alarm panel.
Power supply must be suitable for correct voltage & current rating of the pump, and must have suitable electrical protections and surge protections



High level alarm panel with strobe light, siren and mute switch to stop siren sound only

32mm conduit, sealed both ends to prevent gas entry

Pump power cable. Tie to lifting chain, to prevent it being pulled out of pump housing.

H.L.float cable

High level float weight.
position to set H.L. alarm height.

High Level alarm float.
Lenght of float and cable must be a minimum of 270mm below weight

float switch mounted on pump for automatic start/stop operation.
do not reduce lenght of float and below 270mm

Note:
It is the responsibility of the installer / owner to obtain the neccessary permits if required and ensure full compliance with all local regulations.

Typical Installation of electrical system in King Koba 1300L Pump Chamber

Date: Oct 2025
Scale n.t.s.
Drg # KK1300E

Product Specification and Maintenance Guide

Promax
LIQUID MANAGEMENT SOLUTIONS

PSMG-PMXAC01300PSBLK

Date	September 2021
Code	PMXAC01300PSBLK
Description	Promax Pump Chamber 1300L

Specifications

Capacity (L)	Diameter (mm)	Height (mm)	Manhole Dia (mm)
1300	1000	2070	600

Uses

- In-ground protective chamber for holding and accessing pumps for septic, stormwater and wastewater.

Statement

In line with today's focus on Ecologically Sustained Development, Green Building Initiatives and 5 Star Ratings, Promax is committed to supplying quality Liquid Storage and Handling Solutions

Promax Plastics confirms that if these tanks are installed according to Good Management practices set out in the Promax Installation Guides, they will perform as stated throughout their intended life.

Maintenance

Description	Action	Frequency
Tank Lid	Remains securely fitted	Bi-Monthly
Inlet/Outlet Fitting	Remains securely fitted with no leakage	Bi-Monthly
Pump	Check Pump, if fitted, for inlet screen blockages	Bi-Monthly
Sludge Build Up	Remove sludge with vacuum truck. Re-attach tank lid securely.	Minimum 3 years or as necessary

Please note: Entry into this tank is at owners risk.

Authorised By:

Promax Engineered Plastics Limited
PO Box 749, Kerikeri 0245, New Zealand

Product Specification and Maintenance Guide

Promax
LIQUID MANAGEMENT SOLUTIONS

Responsibility	The owner/s are responsible for maintenance of the tank.
Post Storm Inspection	Following a storm event it is recommended that a full tank inspection is carried out, please refer the maintenance section for guidelines on this.
Debris removal programme	If debris is identified in either a regular maintenance check or post storm inspection it is recommended that this is removed by a professional stormwater maintenance provider.

Maintenance records

Date	Comments	Completed

NEXT GENERATION CONTROL PANELS

DAVIES PUMPS
SINCE 1931

NEW!

LS Alarm Panel

Be ALERTED!

The NEW Davies LS Alarm Panel can be activated using a Float or Level Switch or from a Control Panel input.

Can be supplied with 230V 50/60Hz, 24V DC or 12V DC power

Part No	Power Supply	Light/buzzer	Code
228-LS12-24-230	230V AC/12-24V DC	YES	B
228-LSKIT	230V AC/12-24V DC	YES	B

90DB alarm! with one touch MUTE function

The LS Alarm Panel is designed to provide an audio and visual warning alarm when activated by a separate pump control system input.
When the alarm is activated, the Mute button can be pressed once to silence the audio siren and again to turn off the red flashing LED while system is repaired.
The alarm can operate with 12VDC, 24VDC or 230V 50/60Hz power supply. It has a N/O volt free contact which can be used to activate the alarm directly from a float level switch or alarm signal input.
It is supplied in an IP55 enclosure and comes with two cable glands for installing wiring. The Audio siren is 90db at 30cm with rated voltage.

The alarm box can also be supplied as a kit set with 3 pin plug, power lead and 10m change over (NO/NC) float switch to provide tank high or low level warning.

Available as a kitset

2 YEAR WARRANTY

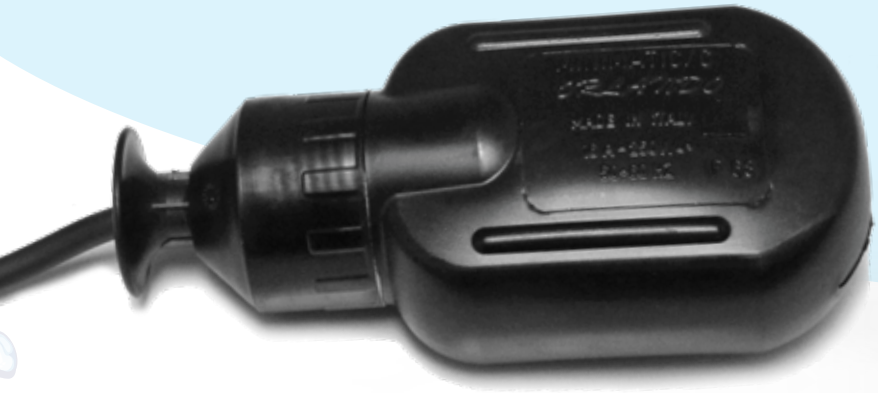
Made in Italy

NEXT GENERATION CONTROL PANELS

Available as a kitset

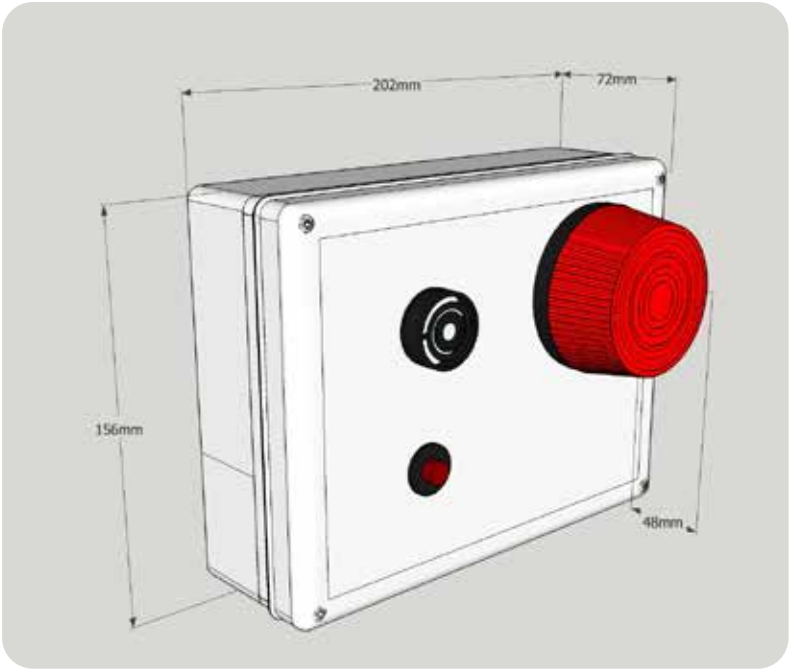
The alarm box can also be supplied as a kit set with 3 pin plug, power lead and 10m change over (NO/NC) float switch to provide tank high or low level warning.

NEW!

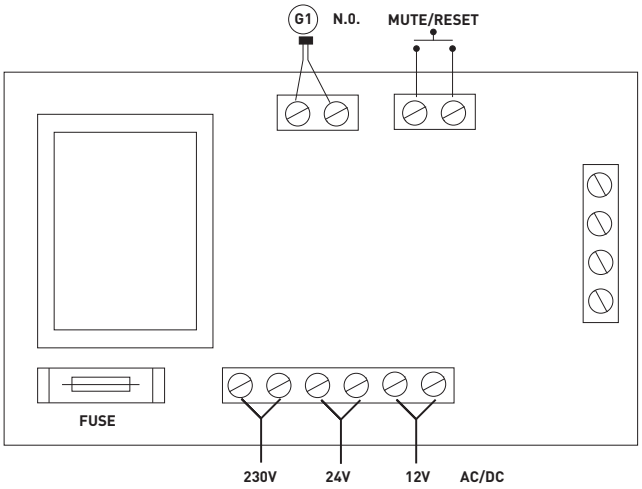


Float Switch: included in kitset

Specs



Connections



For your nearest dealer please contact Argon Distributors | Freephone 0508 634 341

DAVIES PUMPS
SINCE 1931

SWITCHGENIE

PUMP CONTROLLER

Series 2

2 Year Warranty

Intelligent Controller

Run dry protection

0.0

Instantaneous digital readout

MADE IN ITALY

Single - Owners Manual

PRESENTATION

The purpose of this manual is to provide the necessary information for the proper installation, use and maintenance of SwitchGenie Single. The user should read this manual before operating the unit. Improper use may cause damage to the machine and lead to the forfeiture of the warranty coverage. Always specify the model identification code when requesting technical information.

Our units must be installed in sheltered, well-ventilated, non-hazardous environments and must be used at a maximum temperature of +40°C and minimum of -5°C.

DESCRIPTION

These control panels are designed for controlling 1 motor or electric pump used in pressurization systems or in applications for emptying wells or water tanks..
Argon Distributors shall not be liable for any damage caused or suffered by the unit as a result of its unauthorised or improper use.

TECHNICAL FEATURES

Self learning of the motor data; min-max amperage protection (A); dry running protection using cos φ and min current; min and max voltage protection (V); phase failure protection; start and stop delay; delay network restore, protection delay, frequency 50-60Hz.

- **Panel alarm LED**
- **12V DC output for buzzer**
- **Alarm output relay 12VDC or NO contact**
- **Alarm output relay 230V or 400V**
- **Min/max voltage, current, frequency**
- **Phase failure**
- **Min COS FI**
- **Motor Klixon**
- **Water in oil chamber**

HANDLING

The control panel must be handled with care, as falls and knocks can cause damage without any visible external signs.

PRELIMINARY INSPECTION

After you have removed the external packaging, visually inspect the control panel to make sure it has suffered no damage during shipping.
If any damage is visible, inform your supplier as soon as possible, no later then five days from the delivery date.

STORING

If for any reason the unit is not installed after it has reached its destination it must be stored properly.
The external packaging and the separately packed accessories must remain intact, and must be protected from the weather, especially from freezing temperatures, and from any knocks or falls.

WARNINGS

RISK OF ELECTRIC SHOCK
Failure to follow the instructions in this manual, carries a risk of electric shock.

RISK FOR PEOPLE AND PROPERTY
Failure to follow the prescriptions in this manual, carries a risk of damage to persons and/or property.

WARNING
Failure to observe the prescriptions in this manual, cause damage to the pump, the unit or the system.

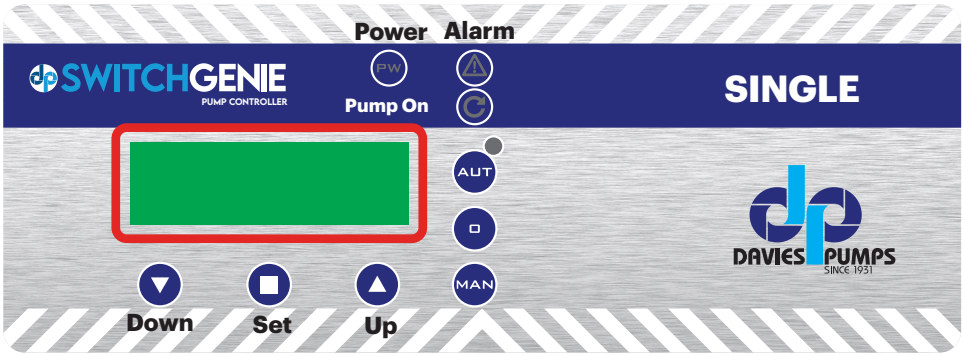
CAUTION

ATTENTION: PUMPS
- Make sure the pumps are fully primed before you start it.
- Make sure the pumps are running with the correct rotation.
- The electric pumps or the motors can start up automatically.

ATTENTION: ELECTRICAL CONNECTION
- The control panel must be connected by a qualified electrician in compliance with the electrical regulations in force.
- The electric pumps or the motors and the panel must be connected to an efficient grounding system in compliance with the electrical regulations locally in force.
- Ground the unit before carrying out any other operation.

ATTENTION: SERVICE
As a general rule, always disconnect the power supply before proceeding to carry out any operation on the electrical or mechanical components of the unit or system.

KEYPAD AND LIGHTS INDICATIONS



CONTROL PANEL	
PW	**PW** blue light indicates the panel is connected to power and is live.
⚠	**ALARM** red light to indicates a general alarm and pump stop. (min/max Amp, min/max V, min/max level, motor klixon, water in oil chamber, phase failure).
↻	**START** green light to indicate pump start; fixed on to indicate pump running, flashing to indicate auto-setting mode.
AUT	**AUT** the button activates the auto-setting mode and automatic pump operation (if the green light is on, the automatic mode is active).
O	**O** pump stop button and reset alarms, sound alarm output turn-off.
MAN	**MAN** activation of pump manually; holding it down, the motor is operated in by-pass mode, with all protections bypassed.

ALARMS

The control panel signals a series of alarms that may occur during operation. Some of these stop the pumps, while others are only displayed.

All alarms are displayed on the panel (red LED flashing), while the display shows the code/alarms occurred until the cancellation by the operator.

ALARM CODE	ALARM DESCRIPTION	PUMP STOP	RELAY ON	LED SIGNAL
AL 1	MIN VOLTAGE	**YES**	**YES**	
AL 2	MAX VOLTAGE	**YES**	**YES**	
AL 3	LOW FREQUENCY	**NO**	**YES**	
AL 4	HIGH FREQUENCY	**NO**	**YES**	
AL 5	DRY RUNNING P1	**YES**	**YES**	
AL 6	MAX AMPERAGE P1	**YES**	**YES**	
AL 7	MAX STAR PER HOUR	**NO**	**YES**	
AL 8	WATER IN OIL CHAMBER P1	**NO**	**YES**	
AL 9	KLIXON P1	**YES**	**YES**	
AL 10	MIN LEVEL	**YES**	**YES**	
AL 11	MAX LEVEL	**NO**	**YES**	

* Phase failure will cause the pump and panel to shut down. Operation will be restored when power supply is correct.

The alarm "AL 11" will attempt to start the pump without other signal inputs

ALARM WITH STOP PUMP

Following the detection of an alarm and the consequent blocking of the pump, the control panel provides the following operations:

- Try the first restart after 5 min.
- In case of a negative result, make another attempt after 30 min. and 3 other attempts with intervals of 60 min.
- After 5 attempts if the alarm persists, the control panel permanently blocks the pump and the alarm remains active until the user intervenes.

DELETE ALARM

To delete an alarm (for example dry run), press the pump (P1) button “0” as follows:

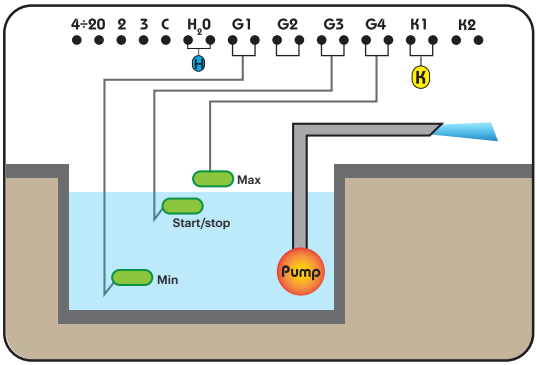
- the first press of the “0” button removes only the voltage from the buzzer terminals (“mute” function)
- the second press of the “0” button reset the alarm.

If the alarm is not reset (by pressing the “0” key twice), at the next alarm signal, the panel will remain in “mute” mode.

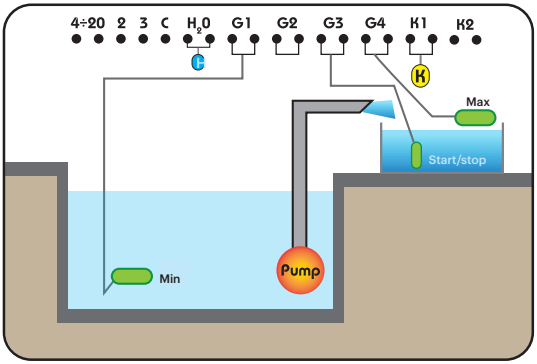
IMPORTANT!
If after having canceled an alarm, the same alarm occurs again, it is recommended to locate the cause of the failure before starting again.

TYPICAL INSTALLATIONS

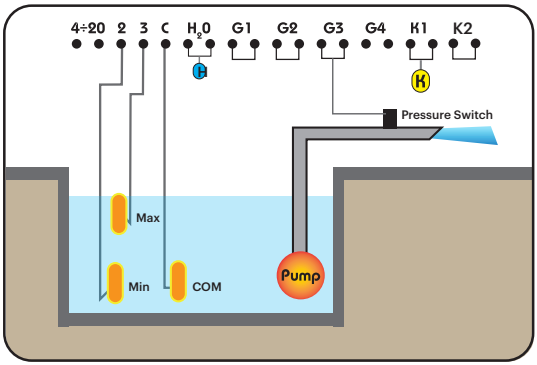
Picture 1



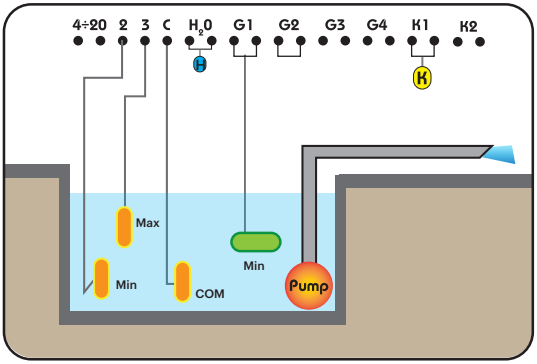
Picture 2



Picture 3



Picture 4

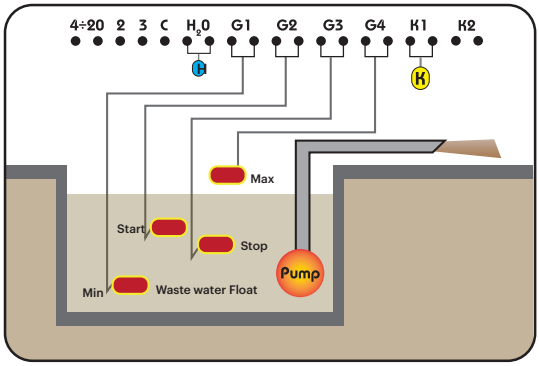


KEY

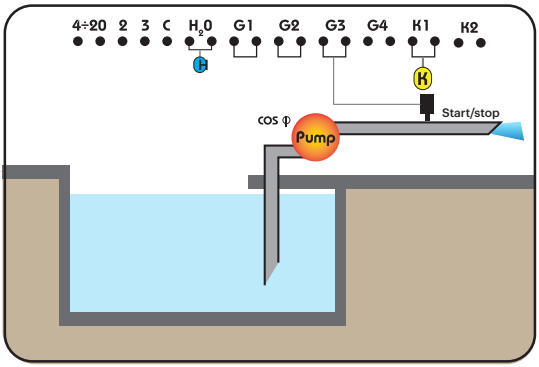
- Clear water float
- Pump
- Waste water float
- Level Probe
- Pressure Switch
- 4÷20 pressure transducer
- 4÷20 Piezorestive Sensor
- Klixon
- Water in seal chamber

TYPICAL INSTALLATIONS

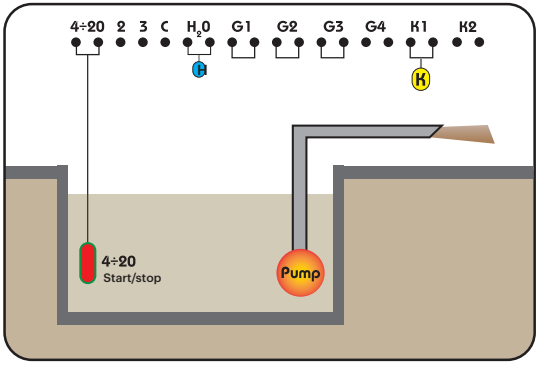
Picture 5



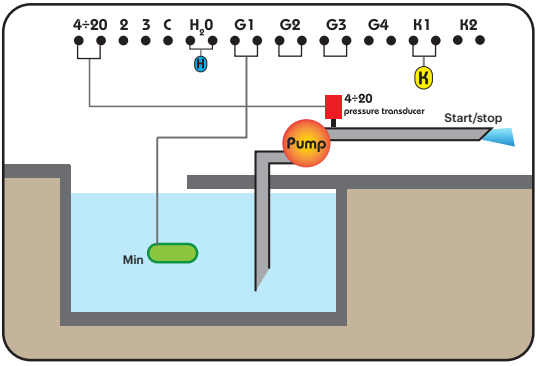
Picture 6



Picture 7



Picture 8



KEY

- Clear water float
- Pump
- Waste water float
- Level Probe
- Pressure Switch
- 4÷20 pressure transducer
- 4÷20 Piezorestive Sensor
- Klixon
- Water in seal chamber

ASSEMBLING

Fix the control panel to a stable support with screws and screw anchor using the holes arranged in the box (pic. 1).
To fix the cables in their terminals use a tool of the proper size to avoid damaging screws.

If use an electric screwdriver pay attention not to damage the thread or the screws.
After installing, remove all plastic or metallic surplus (ex. Pieces of copper of the cables or plastic shavings of the box) inside the box before suppling power.

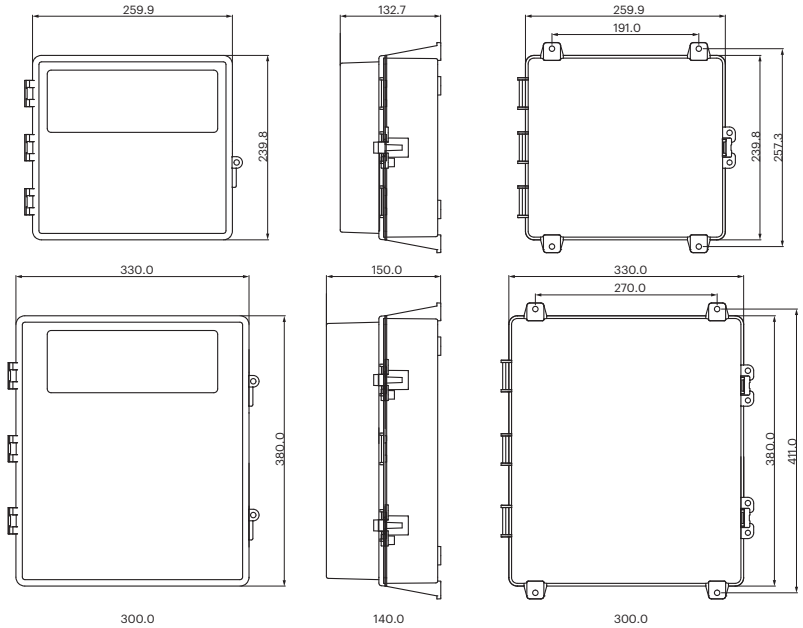


fig. 1

LINE OF SUPPLY CURRENT

Connect the unit at ground before carrying out any other operation.

The voltage input corresponds to the data written on the panel and on the pump:
- (400V ± 10% 50/60Hz x il SWITCHGENIE -400/...)
- (230V ± 10% 50/60Hz x il SWITCHGENIE -230)

Make sure that the power-supply-cable can bear the nominal current and connect it to the terminals of the general switch of the control panel.
If the cables are exposed, they must be appropriately protected.
The line must be protected with an Earth Leakage and magnetic switch measured in accordance with the regulations locally in force.

LINE OF MOTOR POWER SUPPLY

Connect the unit at ground before carrying out any other operation.

The voltage input corresponds to the data written on the motor:
- (400V±10% 50/60Hz three-phase)
- (230V±10% 50/60Hz single-phase)

When starting, make sure that the motor respects the right direction of rotation for the pump usually indicated by an arrow printed on the motor.

OPERATION MENU

The Switchgenie control panels have a simple configuration menu which allows a wide range of settings and options to be easily set up to control and protect a pump system.
The main LCD screen has three views which can be changed using the up/down arrows to view operating data. Main view shows current power supply voltage and Hz with operating mode and type, this will also display alarm code in case of a failure. Second screen shows live motor current and timer values if active. Third screen is active if using a 4-20mA sensor and shows current pressure value.
There is an initial quick start configuration and an advanced configuration menu which are set using the buttons and LCD screen to set.

Basic Quick Start Menu:
This menu is accessible when the panel is connected to the power supply for the first time and allows basic configuration and self learning of pump data (without accessing advanced menu) for quick set up and operation. All electrical and hydraulic connections must be complete and pump system primed for operation.

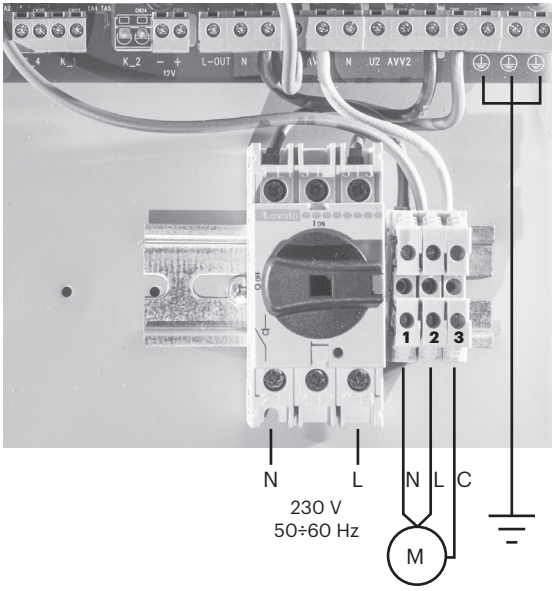
Advanced Menu:
The advanced menu can only be accessed when internal dip switch 2 is set to ON position. When settings are complete, return switch to OFF position to prevent unauthorised changes to parameters from the control panel external buttons.
The seven advanced levels can be viewed using the up/down arrows to scroll through the levels. Each level can be entered using the confirm button and then the up/down arrows to scroll through the parameters.
Each parameter can be altered by pressing the confirm button, then use the up/down arrows to select a value and press confirm to set.

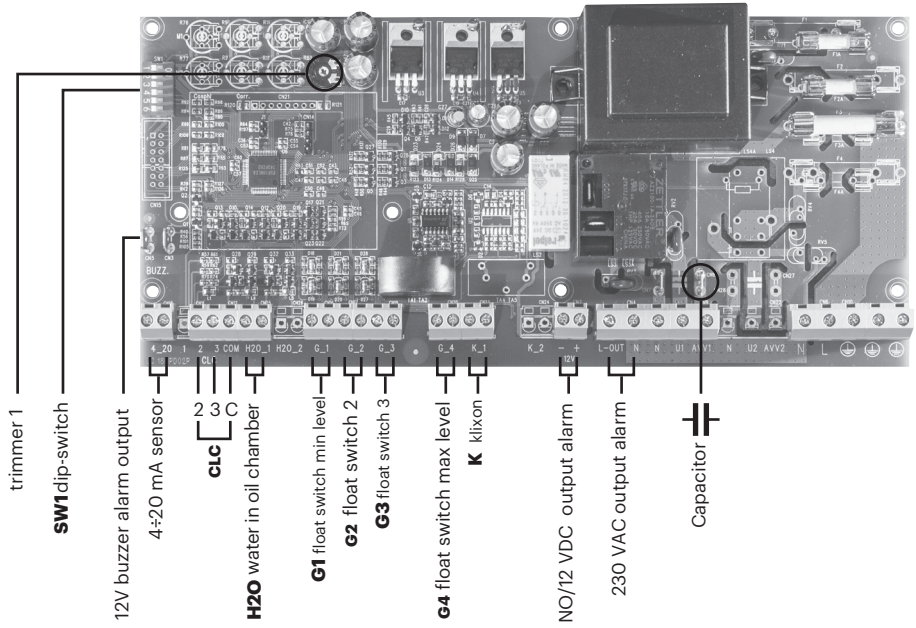
Use the up/down arrows and confirm button to work back and exit the menu.
- **M01** Utility: Language/Start Delay/Manual Button/Max Level Alarm Delay
- **M02** General: Start Delay/Stop Delay
- **M03** Net Control: Nom Voltage/Min Voltage/Max Voltage/Nom Frequency/Frequency Range
- **M04** Pump 1: Autotuning/Nom Current/Min Amperage/Max Amperage/Starts Per Hour/Min Cos.
- **M05** –
- **M06** Program: Operation/Type/Self Holding/BMS
- **M07** Sensor: Parameters/Full Scale/Min Level/Max Level/Start P1-Stop P1
- **M08** Timer: Engage Timer/Timer T1 On/Timer T1 Off
- **Exit**

See the following step by step instructions for details on how to complete quick start and advanced menu configurations.
Pressing and holding the up or down arrows allows the user to quickly change the required value.

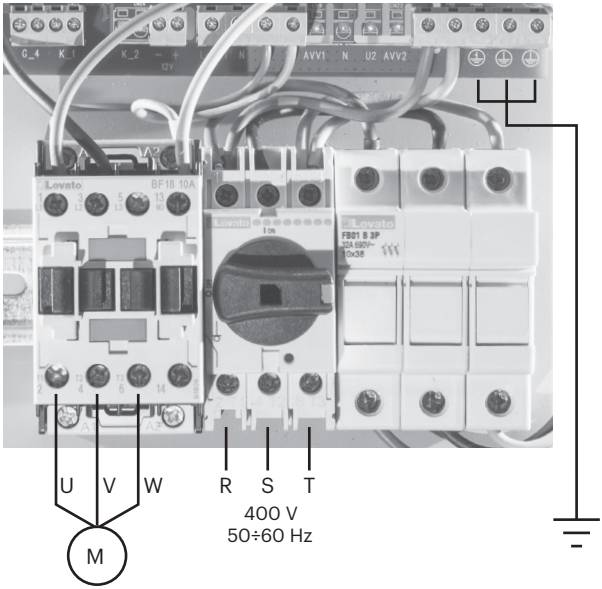
ELECTRICAL CONNECTIONS

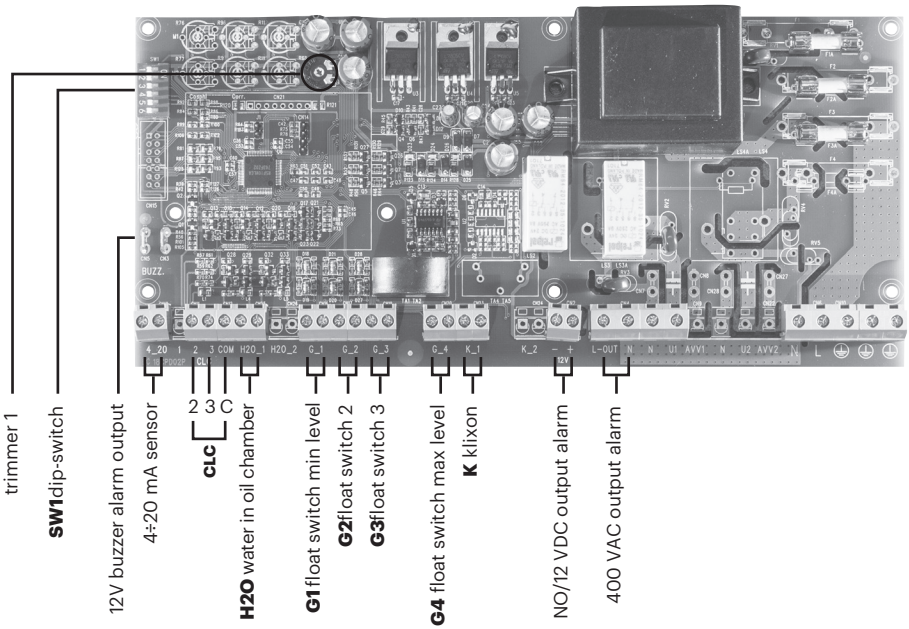
SwitchGenie 230V





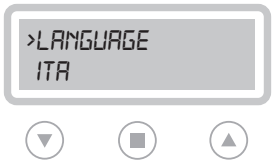
SwitchGenie 400V





BASIC QUICK START MENU

CONTROL PANEL TURN ON



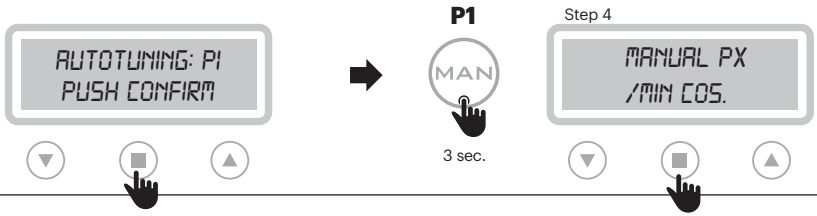
After making all the electrical connections, switch on the control panel and wait for the initial message to appear on the display.

LANGUAGE SETTING (OBLIGATORY)

Select the display language by scrolling the menu with the appropriate arrows (step 1 and 2).

When completed, press the confirm button (step 3) to continue.

PUMP TRIGGER



To proceed with self-learning, the pumps must first be activated.

Do not press Confirm: First manually start and run the pump by pressing and holding the "MAN' button for 3 seconds.

Press confirm to go to Auto-tuning

AUTOTUNING (OBLIGATORY)

To start the self-learning of the pump data, press confirm and the pump will run for 10 seconds to learn operating data. (step 5).

For the final confirmation of the data (step 7) type "YES", or enter "NO" to go back (to step 5).

Before starting the self-learning procedure, it is necessary to check with a tester that the mains voltage corresponds to the nominal one or at least to the mains voltage.

IMPORTANT!
After pressing the final confirmation button, self-learning is no longer possible from basic menu.
To perform the self-learning again it is necessary to access the advanced menu MO4

CONTROL PANEL OPERATIVITY

Once the self-learning phase is completed, the panel screen displays the data learned.

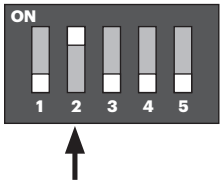
By pressing the "AUT" button the panel becomes operational.

PRESET PARAMETERS	
LANGUAGE: selected	**STOP DELAY:** 1 sec.
TURN ON DELAY: 2 sec.	**OPERATION:**emptying
MANUAL KEY: unstable	**TYPE:** potable
START DELAY: 4 sec.	**SELF HOLDING:** on

To change any of these settings, acess the advanced menu.

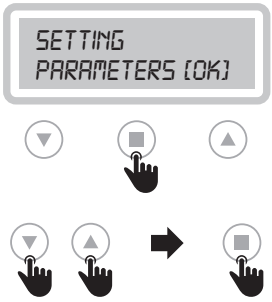
ADJUSTMENTS AND SETTINGS (ADVANCED MENU)

ACCESS TO ADVANCED MENU



DIP-SWITCH 2

The control panel is set as standard with the dip-switch 2 in the "OFF" position. To access the "ADVANCED MENU" and modify the various parameters, **switch off the control panel and set dip-switch 2 to "ON"**. Then turn the control panel back on to display. the "ADVANCED MENU" will be on the screen.

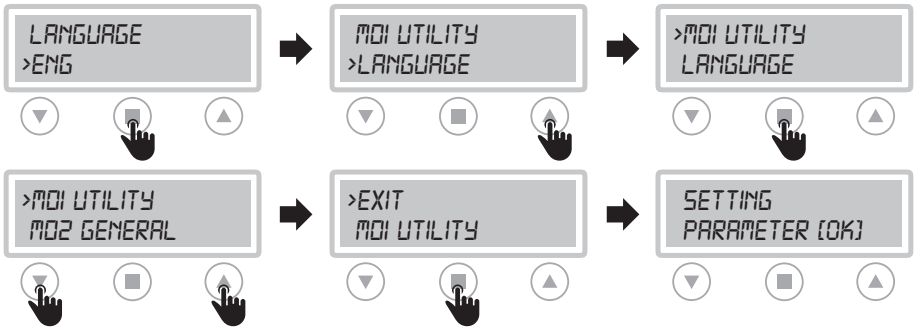


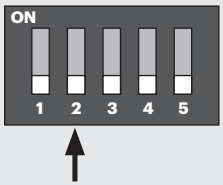
SETTING PARAMETERS

To access the advanced menu and set the various parameters, press confirm. On the display will appear in cascade all the functions. To enter each individual function, select it with the arrows and enter the confirmation button.

EXIT
M01 UTILITY
M02 GENERAL
M03 NET CONTROL
M04 PUMP 1
M06 PROGRAM
M07 SENSOR
M08 TIMER
EXIT

CONFIRM MODIFICATIONS AND EXIT FROM ADVANCED MENU (EXAMPLE)





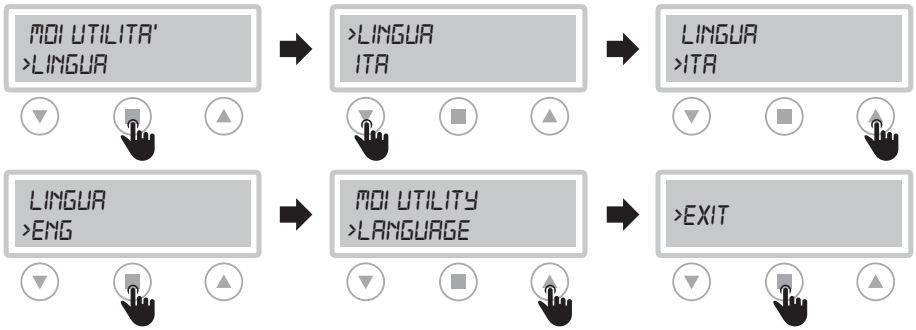
DIP-SWITCH 2

Once the setting of the various parameters has been confirmed (for example the LANGUAGE parameter), to exit the "ADVANCED MENU" **bring the dip-switch 2 back to the "OFF" position**.

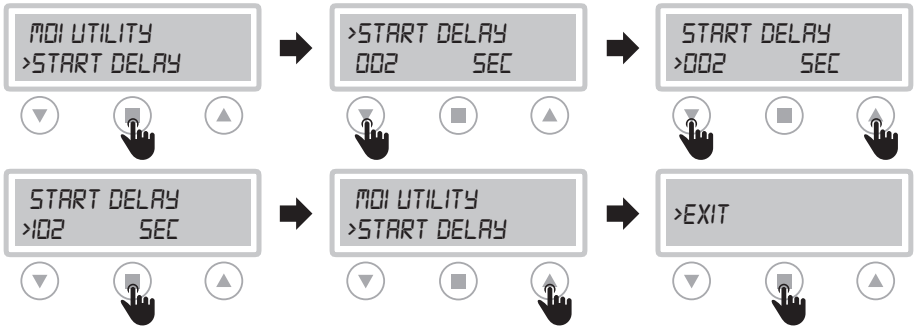
M01 UTILITY

ACCESS TO FUNCTION	MODIFIED PARAMETERS
	**LANGUAGE** (default: as selected) Language selection **START DELAY** (default: 2 sec.) Control panel switch-on delay after restart (in sec.) **MANUAL KEYPAD** (default: OFF) Possibility of operating the "MAN" button in stable or unstable mode (ON: stable / OFF: unstable) **MAX LEVEL ALARM DELAY** (default: OFF) Possibility to delay 15 minutes. (not modifiable) the maximum level alarm. The display will show the alarm and the pump will start (if available), only the alarm relay and the buzzer will be delayed.

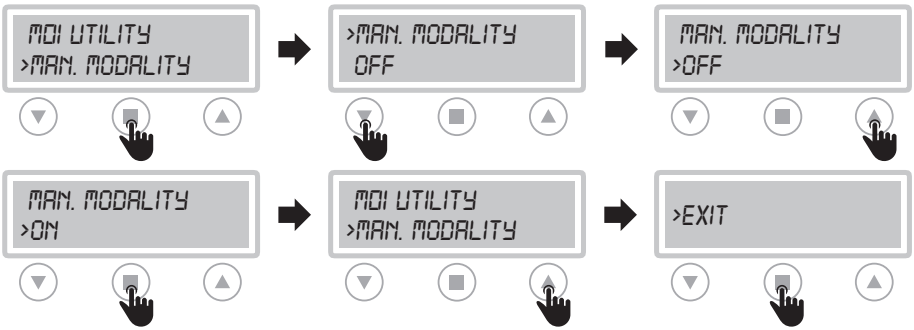
CHANGE LANGUAGE



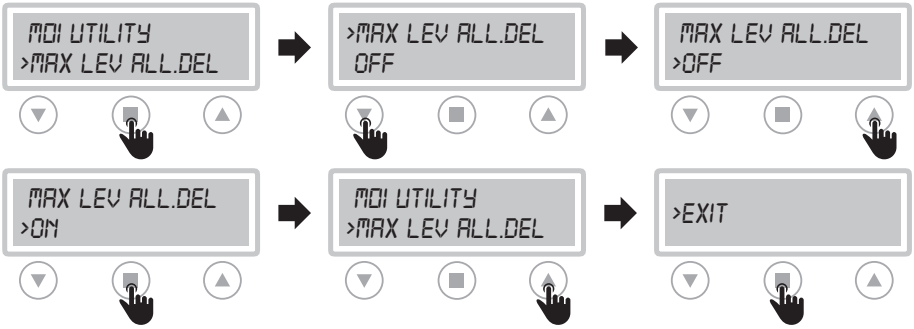
CHANGE START DELAY



CHANGE "MAN" BUTTON (STABLE/UNSTABILE)



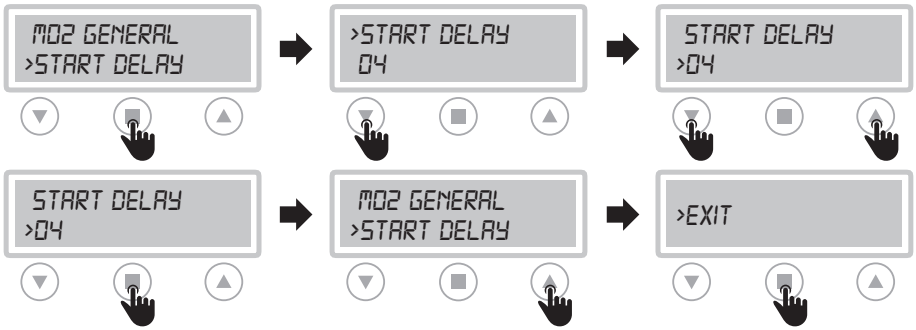
CHANGE MAX LEVEL ALARM DELAY



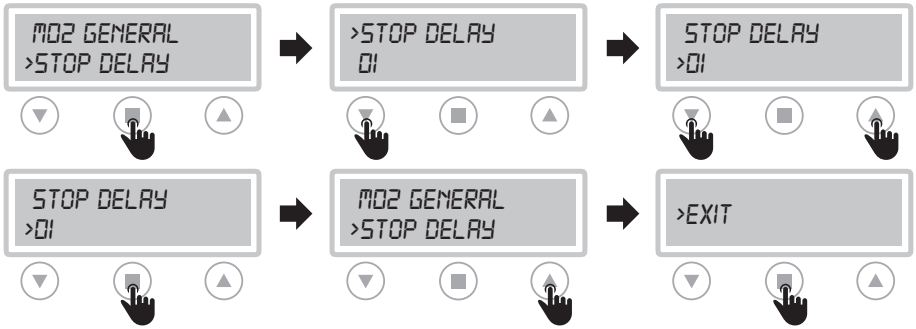
M02 GENERAL

ACCESS TO FUNCTION	MODIFIED PARAMETERS
	**PUMP START DELAY (0-99 sec. Default 4s.)** **PUMP STOP DELAY (0-99 sec. Default 1s.)**

CHANGE START DELAY



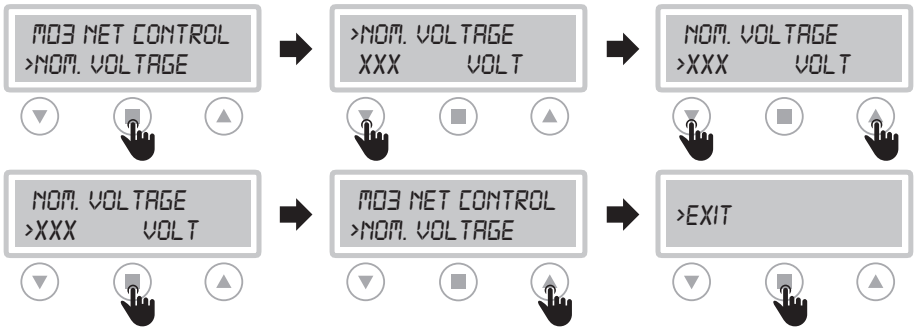
CHANGE STOP DELAY



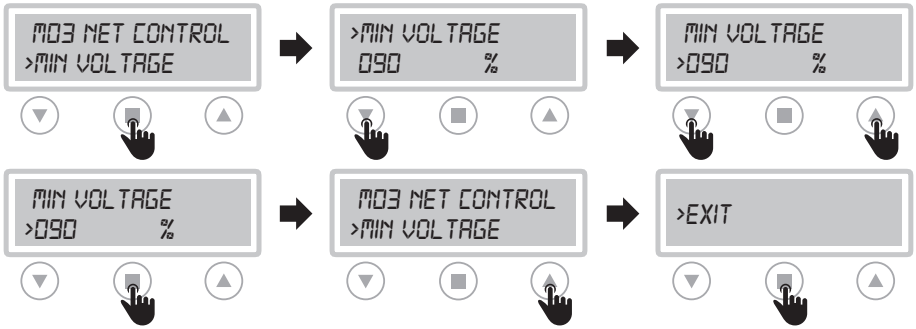
M03 NET CONTROL

ACCESS TO FUNCTION	MODIFIED PARAMETERS
	**NOMINAL VOLTAGE** (0-450V) Default Set by Auto-tuning. **MINIMUM VOLTAGE** (1-100%) Default 90% **MAXIMUM VOLTAGE** (1-100%) Default 90% **NOMINAL FREQUENCY** (50/60Hz) Default set by Auto-tuning. **FREQUENCY RANGE** (0-10%) Default 10%

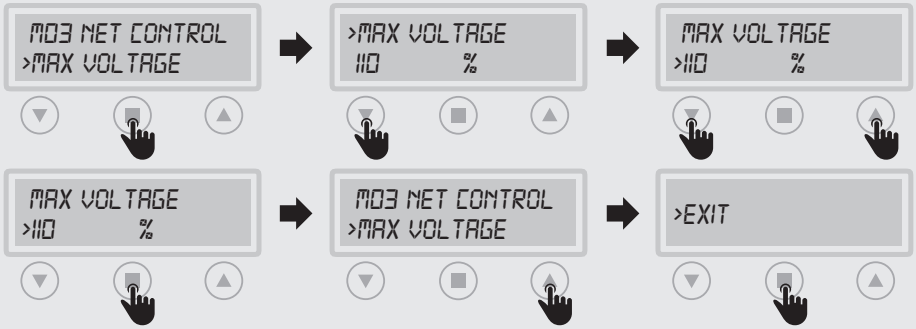
CHANGE NOMINAL VOLTAGE



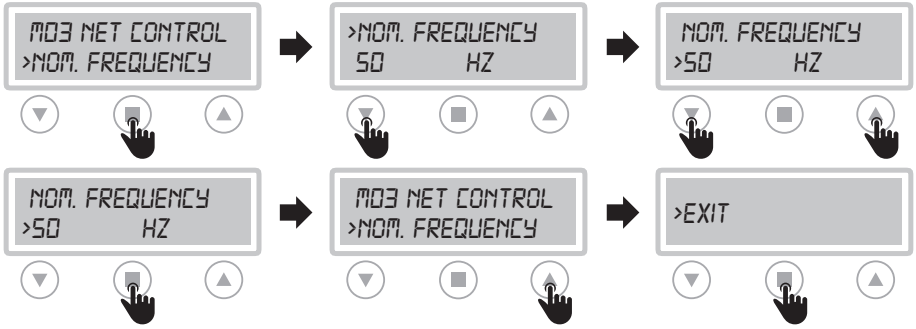
CHANGE MINIMUM VOLTAGE



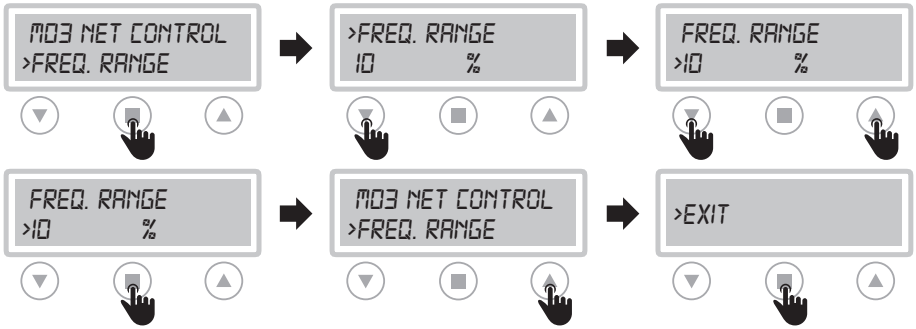
CHANGE MAXIMUM VOLTAGE



CHANGE NOMINAL FREQUENCY

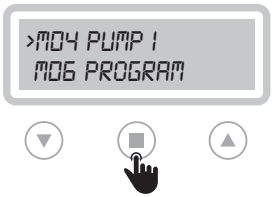


CHANGE FREQUENCY RANGE



M04 PUMP 1

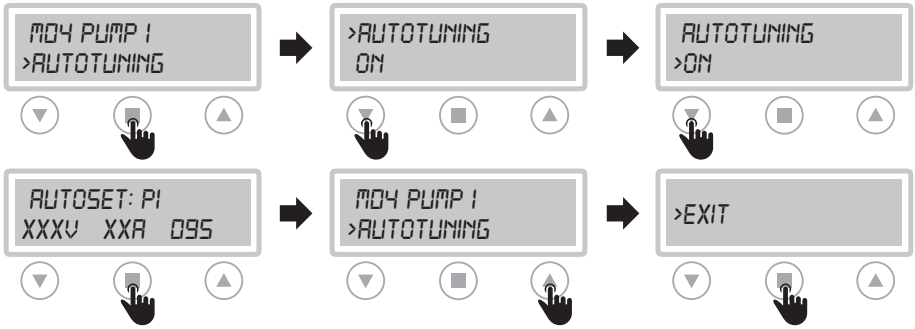
ACCESS TO FUNCTION	MODIFIED PARAMETERS



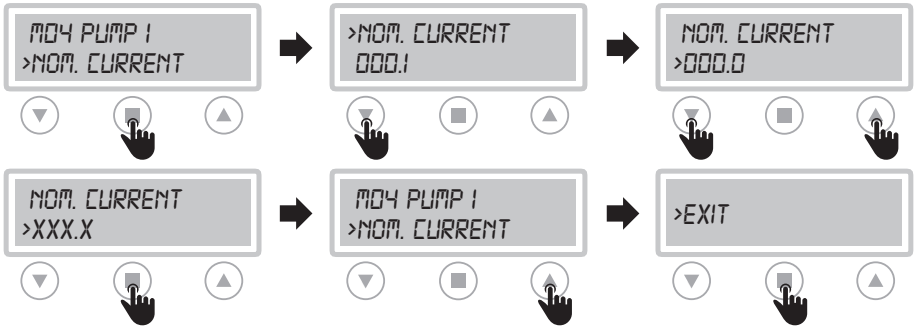
The amperage value and cosφ shown on the display may differ ±5% from the nominal value of the pump (nameplate data) since the control panel is not a measuring instrument. The same value may differ depending on the operating conditions of the installation.

AUTOTUNING
It allows the self-learning of the data to be carried out again
NOMINAL CURRENT (0-999A) Default set by Auto-tuning.
MINIMUM AMPERAGE (1-140%) Default 85%.
MAXIMUM AMPERAGE (1-140%) Default 130%
Max current setting for overcurrent protection
START PER HOUR (1-99) Default 30.
Set max number of pump starts per hour
MIN COSφ (default: 75% of value read in autotuning)
Set min. cosφ for dry running protection

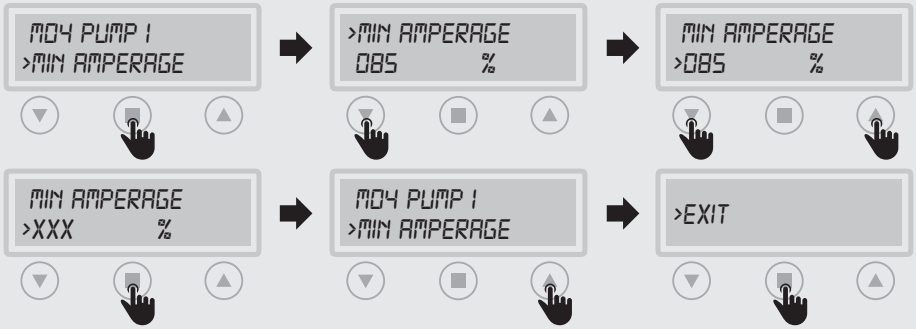
AUTOTUNING



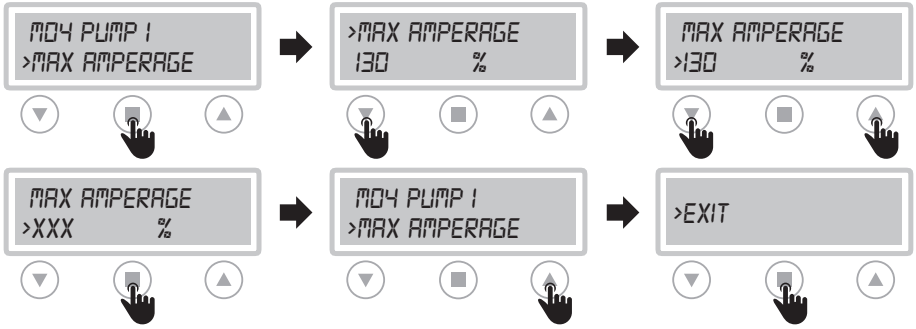
CHANGE NOMINAL CURRENT



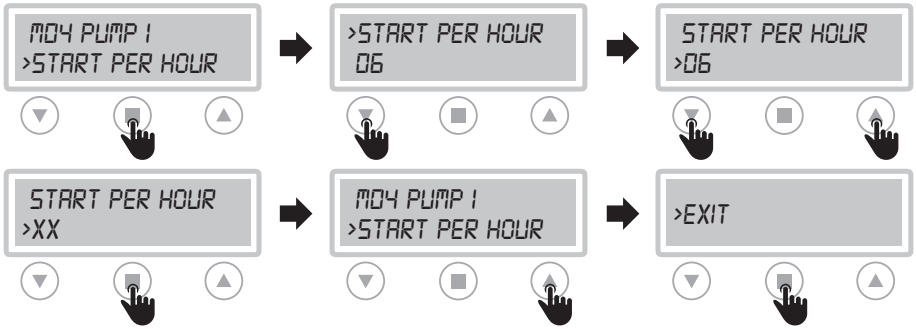
CHANGE MINIMUM AMPERAGE



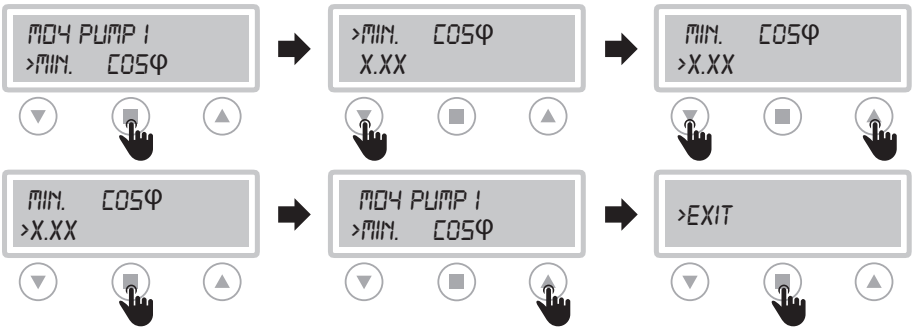
CHANGE MAXIMUM AMPERAGE



CHANGE START PER HOUR

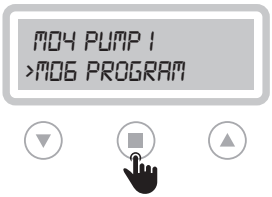


CHANGE MIN COSΦ



M06 PROGRAM

ACCESS TO FUNCTION

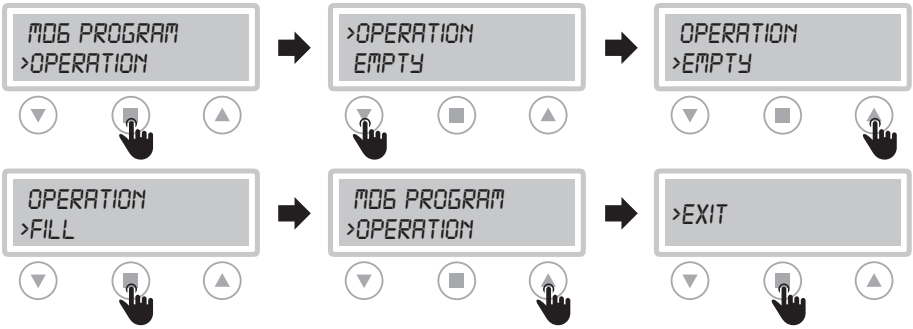


SELF HOLDING OPERATION
If the self holding is ON and the water level is going up, G1 is up, G2 goes up and starts pump 1. If the water level is going down, G2 goes down but it does not stop pump 1, G1 goes down and stops the pump.

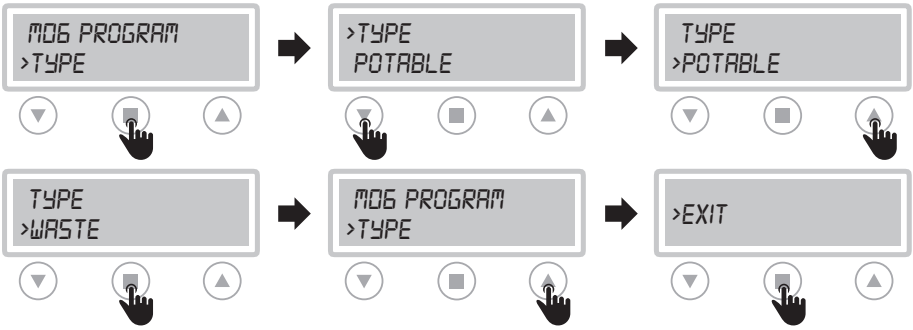
MODIFIED PARAMETERS

OPERATION CONTROL (Default 'Empty")
For tank emptying select “EMPTY“ or filling select “FILL“ to set float swtch operation
TYPE
Selection of clear or dirty water types for level float switch configuration.
For Waste Water' type, only empty function is available.
SELF HOLDING
Mostly used for waste water applications: 4 float switches being used (G1 stop the pump, G2 start
pump 1, G4 max level alarm and start the pump)
BMS (remote emergency Start/stop)
To start/stop the control panel by remote button, the use of the ‘BMS‘ function takes place through the G4 input. (contact closed: pump enabled. Open contact: pump disabled)

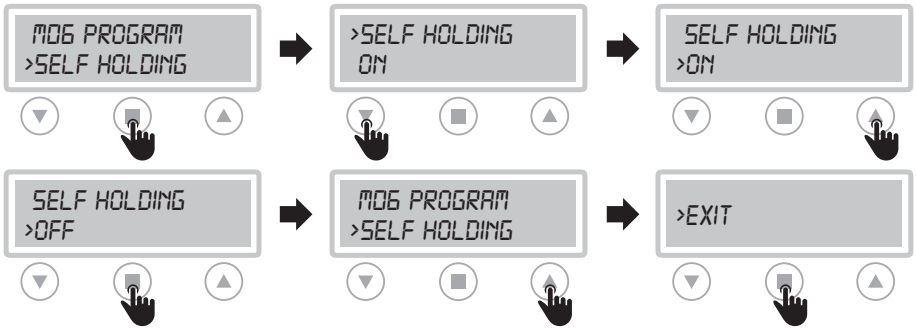
OPERATION (EMPTY/FILL)



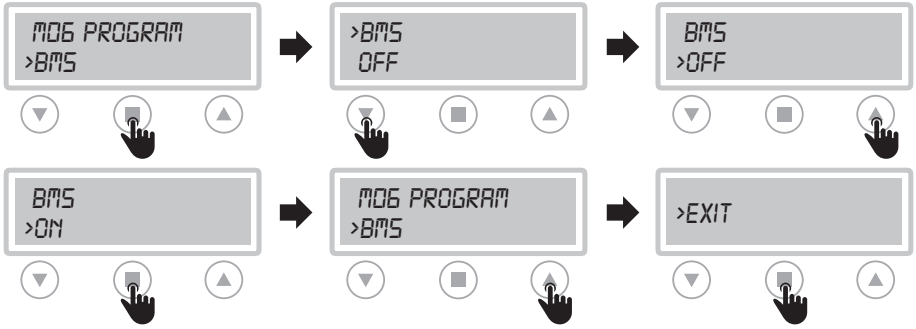
TYPE (POTABLE/WASTE WATER)



SELF HOLDING

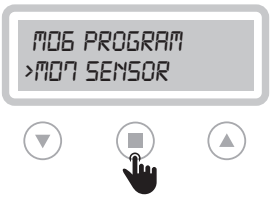


BMS SETTING



M07 SENSOR (sensor/transducer 4÷20 mA)

ACCESS TO FUNCTION



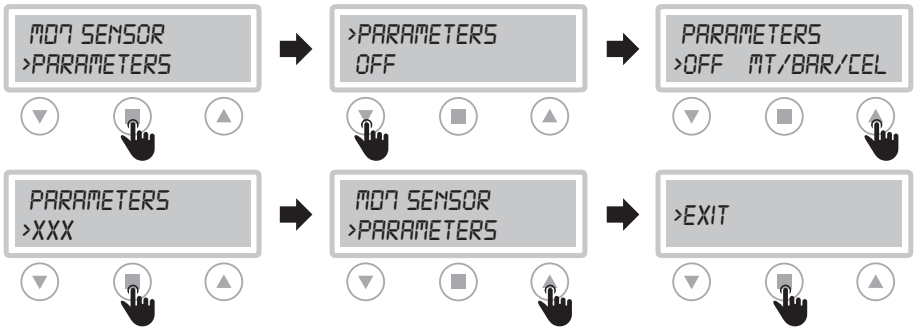
The "SENSOR" function allows to use the control panel with piezoresistive, piezocapacitive level sensors or pressure transducers (logic 4÷20 mA).

ATTENTION: Switch off the control panel before connecting the sensor.
Check correct orientation of transducer leads

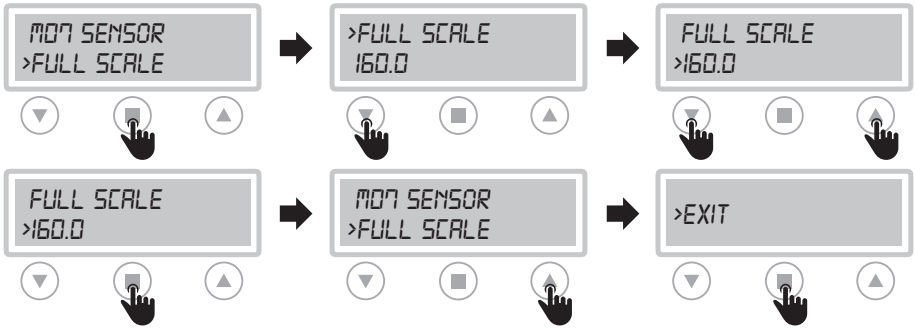
MODIFIED PARAMETERS

PARAMETERS (Default off)
Setting unit of measure (mt/bar/celsius). Use bar for pressure transducers and mt for piezoresistive sensors.
FULL SCALE
Set the full scale value specified by the manufacturer of the sensor used (default value 160.0mt)
0-10 bar transducer = 010.0
MINIMUM LEVEL (Default 5.0)
Parameter active only with unit of measure in mt
MAXIMUM LEVEL (Default 100)
Parameter active only with unit of measure in mt
Start P1/Stop P1. Default is 10.0 - 20.0

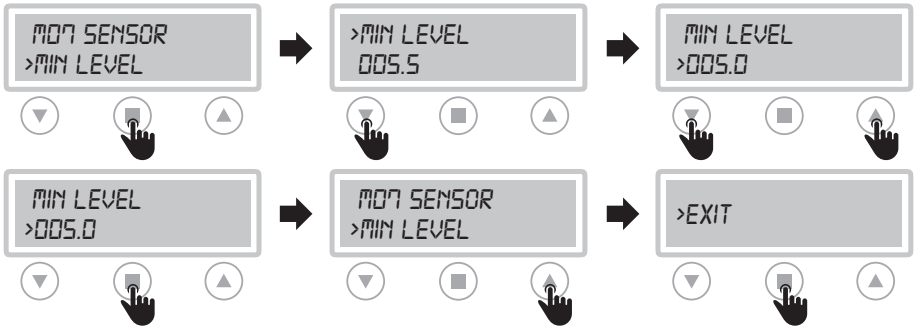
SET PARAMETERS



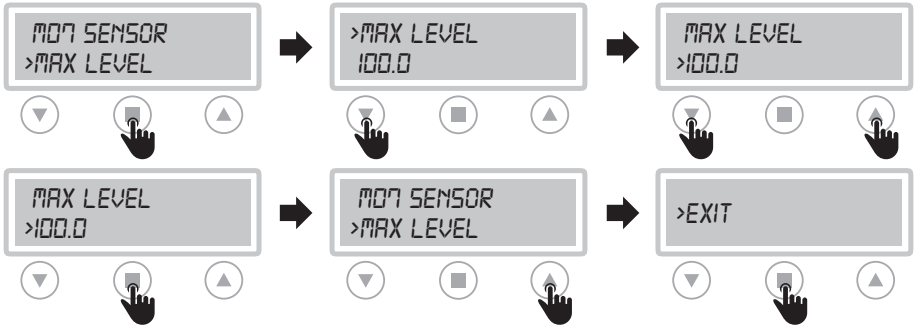
SET FULL SCALE



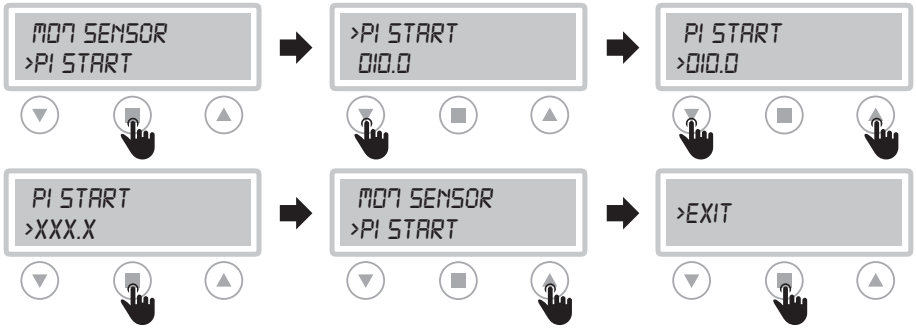
SET MINIMUM LEVEL

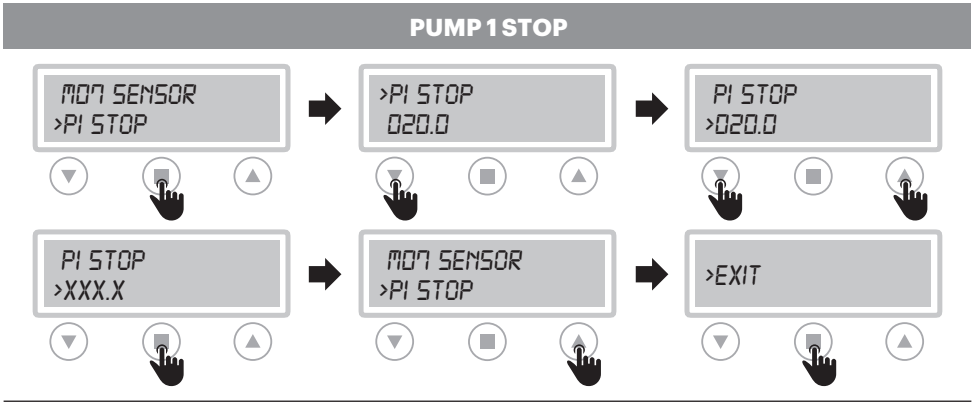


SET MAXIMUM LEVEL



PUMP 1 START





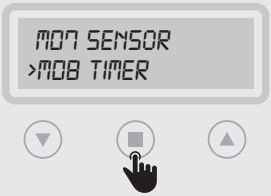
IMPORTANT!
For the mt and celsius parameters you can select the "FILL" and "EMPTY" programs (see page 19)

- **FILL: START value < STOP value**
- **EMPTY: START value > STOP value**

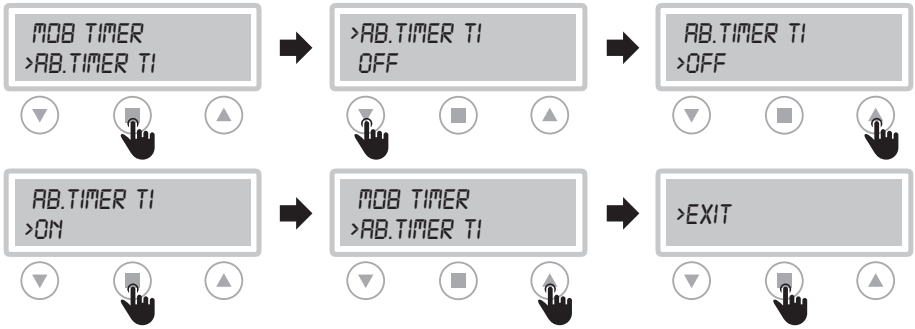
For the bar parameter can be selected only the "EMPTY" program

- **EMPTY: START value < STOP value**

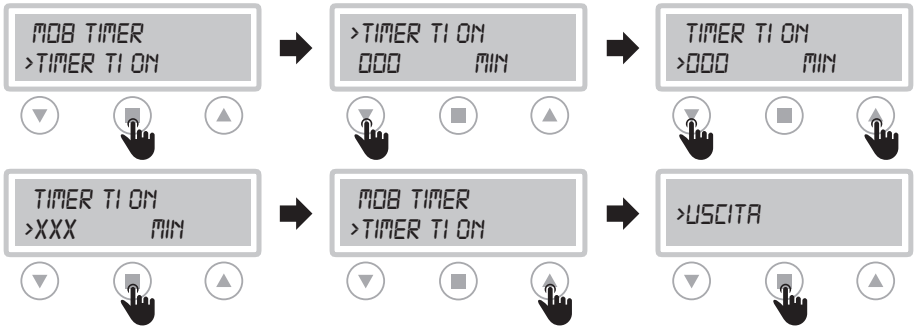
M08 TIMER

ACCESS TO FUNCTION	MODIFIED PARAMETERS
	**ENGAGE TIMER T1** (default: OFF) **TIMER T1 ON** 0-720min (default is 0min.) Setting the working minutes of the pump **TIMER T1 OFF** 1-1440min (default is 0min) Setting the pause minutes of the pump

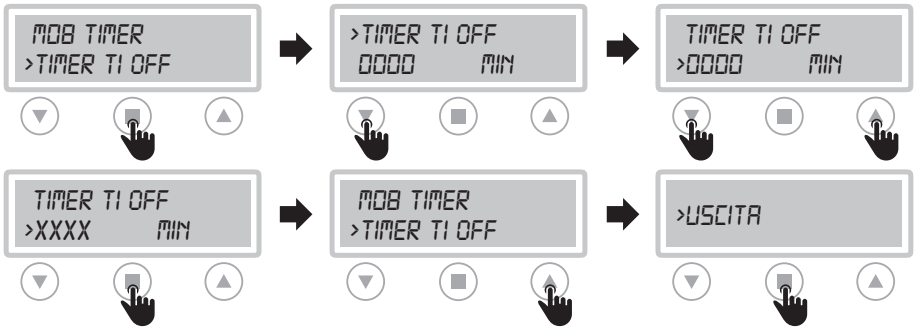
SET DUTY/STAND-BY



TIMER T1 ON



TIMER T1 OFF

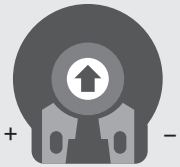

MOB TIMER
>TIMER T1 OFF
>TIMER T1 OFF
0000 MIN
TIMER T1 OFF
>0000 MIN
TIMER T1 OFF
>XXXX MIN
MOB TIMER
>TIMER T1 OFF
>USCITA

TRIMMER SETTINGS

To change manually the threshold for protection, **interrupt the power supply to the control panel** working on the trimmers. Please follow the below instructions:

PROTECTION DELAY
The pump protection switching delay has been set at **5 sec**

TRIMMER SETTING



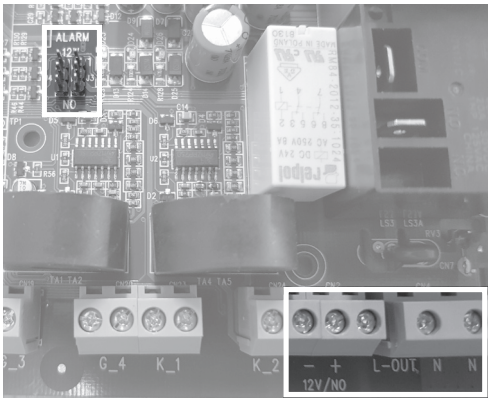
TRIMMER 1: PROBE SENSITIVITY CHANGE

Probe sensivity (CLC) and water in oil chamber sensor trimmer regulation.

It is possible to change the sensitivity of the CLC probes and the water sensor in the oil chamber **interrupting the power supply to the control panel** and acting on trimmer 1 (clockwise to increase and counterclockwise to decrease sensitivity).

ALARM CONTACT OUTPUTS

SINGLE PHASE VERSION	THREE PHASE VERSION
Alarm outputs: • L-OUT / N = 230 VAC • + -12 / NO = 12V d.c. or contact NO	Alarm outputs: • L-OUT / N = 400 VAC • + -12 / NO = 12V d.c. or contact NO



12 V d.c. output

free contact NO

PUMPS STOP

MODE	BUTTON	STOP
MANUAL	MAN	The motor stops when the "MANUAL" button is released or once you press the 0 button.
AUTOMATIC	0	When the input commands are disable/non active once you digit the 0 button.
OFF		Turn the main switch in the interlocking door to "OFF" position.

SERVICE

SwitchGenie does not require any routine maintenance provided that its working limits are observed. Any maintenance operations must be performed by qualified and experienced personnel, in compliance withthe safety regulations in force.

DANGER!
Make sure that SwitchGenie is disconnected from the power supply before performing any maintenance operations.

SPARE PARTS

Always state the exact model identification number when requesting technical information or spare parts from our sales and service centre.

Use only original spare parts when replacing any faulty components. The use of unsuitable spare parts can cause malfunctions, personal injury and damage to property.

WASTE DISPOSAL

After the control panel has been installed and started, the customer must provide for the appropriate elimination/disposal of the waste materials according to the legislation locally in force. If the control panel or parts of it must be taken out of service and dismantled, follow local regulations regarding sorted waste disposal. Refer to the appropriate recycling centres.

CAUTION!
Contamination of the environment with hazardous substances such as battery acid, fuel, oil, plastic, copper, etc., may cause serious damage to the environment and endanger people's health.

CERTIFICATE OF CONFORMITY

SWITCHGENIE SINGLE and DUAL models

ARE IN CONFORMITY
WITH COMMUNITY DIRECTIVES REGARDING:

- European directive 2006/95/CE
- Electromagnetic compatibility directive 2004/108/CE

CE

AND AS APPLICABLE TO HARMONIZED STANDARDS:

- EN 61439-1
- EN 61439-2
- EN 60204-1
- EN 55014-1
- EN 55014-2
- EN 61000-3-2
- EN 61000-3-3

Warranty Policy for Davies Pump Controllers

Your Davies Pump Controller, when used for its designed purpose should give you years of trouble free service. Please take the time to read and understand the operator's manual for this product before installing and operating. Failure to install and operate as per the operation instructions will render warranty on this unit void.
Davies Pump Controllers are warranted to be free of material and manufacturing defects at the time of purchase. Warranty Period: 2 Years from date of purchase.
This warranty is limited to the cost of the product and does not cover travel charges, removal and re-installation charges, consumables, Electrician or Plumbers charges or any other third party costs unless authorized by Argon Distributors prior to being carried out.
Argon distributors will repair or replace for the consumer any portion of the failed item which has proved to be defective within the warranty period. Replacement product or parts may include refurbished parts or components.

The warranty does not cover Damage or malfunction resulting from:

A. Misuse, accident, fire, water, lightning, negligence, abuse, product modifications.
B. Repairs or attempted repairs by unauthorized persons
C. Damages to product caused by transit
D. Removal or installation of the product
E. Normal wear and tear.
F. Water and Insect ingression
G. Exposure to corrosive conditions
H. Foreign objects in the liquid being pumped
I. Electrical power fluctuations
J. Freight

Argon Distributors liability is limited to the cost of the product and shall not be liable for:

A. Damage to other property caused by defects in the product.
B. Loss of use of the product.
C. Loss of time, loss of profits, loss of business opportunity, loss of goodwill
D. Any other damages incidental, consequential or otherwise.
E. Claims under this warranty must give evidence of the Date of purchase, Invoice Copy, Model, Serial Number, photos and information of the installation as soon as the failure has occurred.
Owner's detail must be noted.

If any of the above is unclear please contact your supplier or warranty manager at ARGON DISTRIBUTORS.

Proven solutions through experience

ARGON
DISTRIBUTORS LTD

argondistributors.co.nz

Promax 1300L Pump Chamber Specs

Model	**UXCH01300BK**
Capacity	**1300L**
Material Type	**LLDPE**
Lid Type	**600mm Plastic or Cast**

Standard Manufactured Too AS/NZS 3500 & 1546.1

Phone 09 407 3575
Email sales@promax.co.nz
389 Waipapa Rd., Waipapa
Kerikeri PO Box 749, Kerikeri 0245
www.promax.co.nz