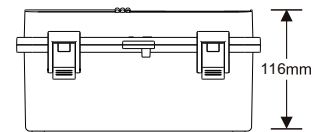
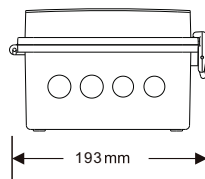
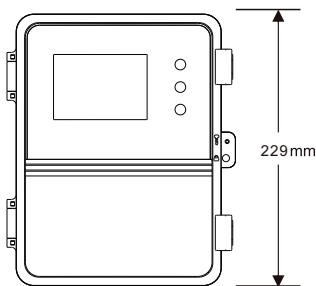


General details	
Application & control characteristic	<ul style="list-style-type: none"> . Applied for water transfer from low tank to upper tank by liquid probe or float switch . Applied for booster by pressure switch & pressure tank. . Applied for sewage lifting by liquid probe or float switch . Applied for pure cycle timer control (<i>no any logic control characteristic</i>) . Applied for temperature control by PT100 temperature sensor (<i>separate PT100 temperature sensor expansion module required</i>)
Protection function	<ul style="list-style-type: none"> . Dry run protection with sensor free . Pump stalled protection . Overload protection . Under voltage protection . Over voltage protection
Other features	<ul style="list-style-type: none"> . Push button calibration . Pure cycle timer control . Pump stop timer under manual control state . Pump last five fault record displaying . Pump accumulative running time displaying . Dynamic LCD displays pump running information . Memory Function when Power Off & Power Recovery . Optional function expansion module available: PT100 temperature sensor expansion module . A friendly human-machine interface is provided by LCD module . Reserved start capacitor/run capacitor installation space . All electronic components with good stability, product quality is stable and reliable . Different housing color available: black / white . Different housing (cover) shape available . Overflow alarm for sewage lifting/drainage application . Easy installation/wiring for capacitor
Main installation data	<ul style="list-style-type: none"> . Working temperature: -25°C -- 55°C . Working humidity: 20%-90%RH, no condensing . Degree of protection: IP67 . Mounting type: Wall mounting . Unit dimension(L * W * H) 229*193*116mm



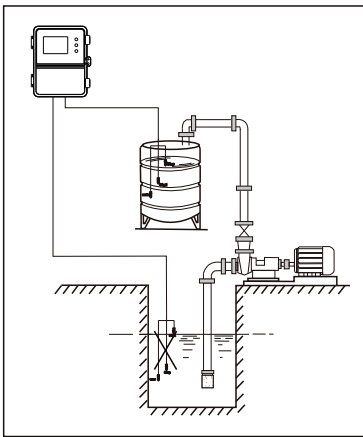
General details

Package data

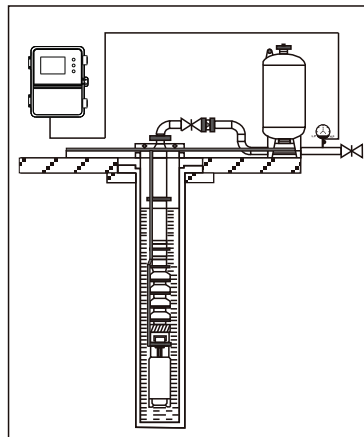
. Net weight	0.95kg/set (approximate)
. Gross weight	1.17kg/set (approximate)
. Packing quantity	8sets in 1carton box, Carton size: 56x41x29cm

Typical Application Example

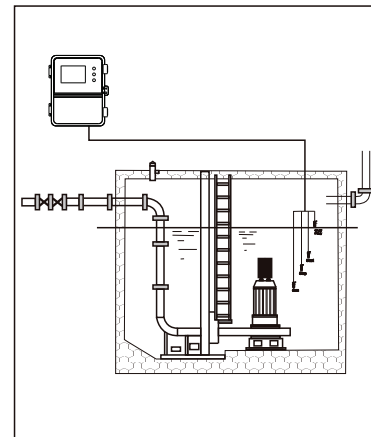
Feed water / Water transfer



Pressure boosting



Drainage / Sewage



SINGLE PUMP CONTROL PANEL
 MODEL: PCH11 / PCH11 Plus



General details																										
Model	PCH11	PCH11 Plus																								
Main introduction	Model PCH11 is an easy to use, simple and reliable smart single-phase pump control and protection device, which can be widely used to control and protect deep well pump, sewage pump, self-priming pump, centrifugal pump, pipeline pump etc.	Model PCH11 Pro is the upgraded version, except all the features of model PCH11, model PCH11 Plus has more unique function/features.																								
Main technical data	DOL (Direct on line) Single pump control AC220V/AC230V Single phase 50HZ/60HZ <i>* customization input voltage, please contact the manufacturer</i>																									
<ul style="list-style-type: none"> Start type Qty of controlled pump Rated input voltage 																										
<ul style="list-style-type: none"> Rated output power 	<table border="1"> <thead> <tr> <th colspan="2">Max Motor Output at AC220V / 1Phase</th> <th rowspan="2">Max Full Load Ampere (A)</th> <th rowspan="2">Max Starting Ampere (A)</th> </tr> <tr> <th>HP</th> <th>KW</th> </tr> </thead> <tbody> <tr> <td>0.5</td> <td>0.37</td> <td rowspan="4">18A</td> <td rowspan="4">90A</td> </tr> <tr> <td>0.75</td> <td>0.55</td> </tr> <tr> <td>1.0</td> <td>0.75</td> </tr> <tr> <td>1.5</td> <td>1.1</td> </tr> <tr> <td>3.0</td> <td>2.2</td> <td rowspan="3">32A</td> <td rowspan="3">160A</td> </tr> <tr> <td>4.0</td> <td>3</td> </tr> <tr> <td>5.5</td> <td>4</td> </tr> </tbody> </table> 0.37kw-2.2kw (0.5hp-3hp) 3kw-4kw (4hp-5.5hp) <i>* customization output or ampere, please contact the manufacturer</i>		Max Motor Output at AC220V / 1Phase		Max Full Load Ampere (A)	Max Starting Ampere (A)	HP	KW	0.5	0.37	18A	90A	0.75	0.55	1.0	0.75	1.5	1.1	3.0	2.2	32A	160A	4.0	3	5.5	4
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4.0	3																									
5.5	4																									
<ul style="list-style-type: none"> Qty of passive dry contact point(BA port) 	No passive dry contact point available <i>(support to subsequent extensions)</i>	Two passive dry contact point available																								
<ul style="list-style-type: none"> Qty of USB port 	No USB port available	One USB port available																								



General details	
. Supported external sensing device	0.5-4.5V Level transmitter / Pressure transmitter (<i>model PCH11 support to subsequent extensions</i>) 4-20mA Level transmitter / Pressure transmitter (<i>model PCH11 Plus only</i>) Float switch (ON/OFF signal) Pressure switch (ON/OFF signal) Liquid probe PT100 temperature sensor (<i>separate PT100 temperature sensor expansion module required</i>) MEMS air pressure transmitter (<i>separate MEMS air pressure transmitter required</i>)
. Signal transmitting distance	1000meters max
. Alarm volume	75db
Application & control characteristic	<ul style="list-style-type: none">. Applied for water transfer from low tank to upper tank by liquid probe or float switch. Applied for booster by pressure switch & pressure tank.. Applied for sewage lifting by liquid probe or float switch. Applied for drainage pump with piggy-back float switch. Applied for water transfer from low tank to upper tank by level transmitter. Applied for booster by pressure transmitter. Applied for sewage lifting by level transmitter. Applied for pure cycle timer control (<i>no any logic control characteristic</i>). Applied for temperature control by PT100 temperature sensor (<i>separate PT100 temperature sensor expansion module required</i>)
Protection function	<ul style="list-style-type: none">. Dry run protection with sensor free. Pump stalled protection. Overload protection. Under voltage protection. Over voltage protection. Pump shaft anti rust protection. Over temperature protection (it requires pump with built in over temperature sensor) (<i>model PCH11 Plus only</i>). Pump leakage protection (it requires pump with leakage sensor) (<i>model PCH11 Plus only</i>)
Other features	<ul style="list-style-type: none">. Push button calibration. Pure cycle timer control. Pump stop timer under manual control state. Pump last five fault record displaying. Pump accumulative running time displaying. Dynamic LCD displays pump running information. DIP function switch for different application choosing. Memory Function when Power Off & Power Recovery. Optional function expansion module available: PT100 temperature sensor expansion module. A friendly human-machine interface is provided by LCD module. Reserved start capacitor installation space. All electronic components with good stability, product quality is stable and reliable

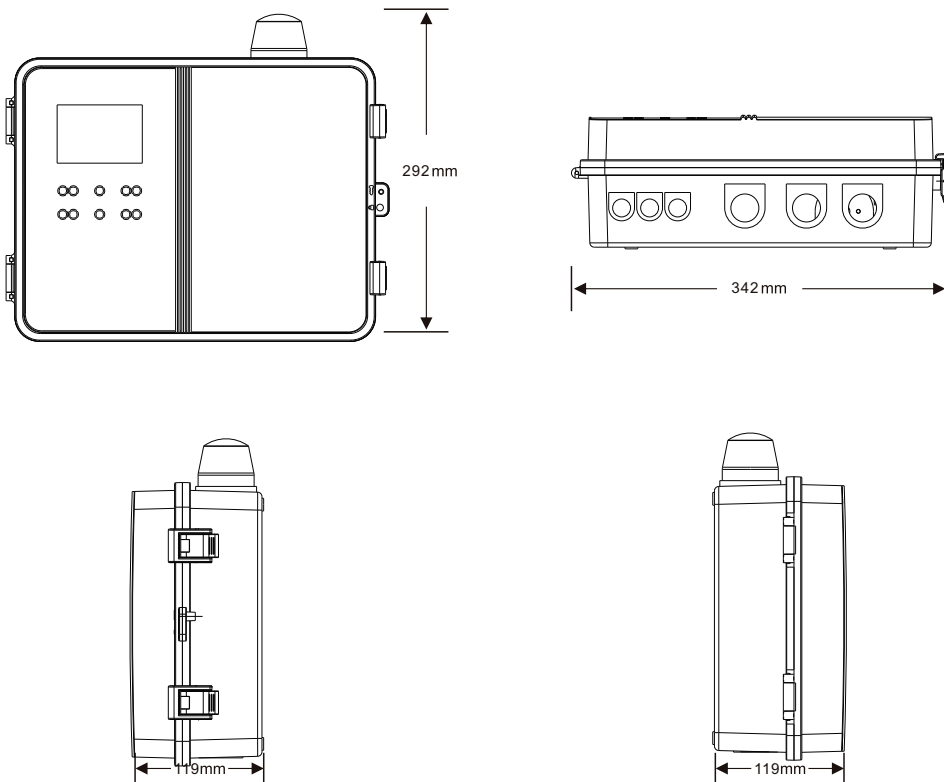
General details

Other features

- . Different housing color available: black / white
- . Overflow alarm for sewage lifting/drainage application
- . RS485 communication protocol
- . Reserved space to install MEMS air pressure transmitter, which can be used for sewage lifting system
- . DC24V audible & visual alarm
- . Two passive dry contact point available (*model PCH11 Plus only*)
- . USB port available (*model PCH11 Plus only*)
- . Wide global input voltage design AC90V-AC440V (*model PCH11 Plus only*)

Main installation data

- . Working temperature -25°C -- 55°C
- . Working humidity 20%-90%RH, no drip condensing
- . Degree of protection IP67
- . Mounting type Wall mounting
- . Unit dimension(L * W * H) 342*292*119mm



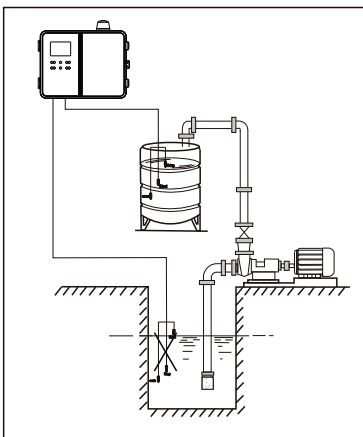
General details

Package data

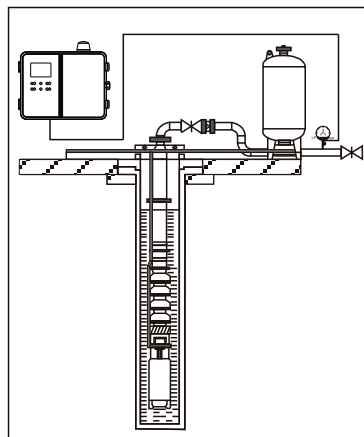
. Net weight	2.5kg/set (approximate)
. Gross weight	2.9kg/set (approximate)
. Packing quantity	4sets in 1carton box, Carton size: 60x35x33cm

Typical Application Example

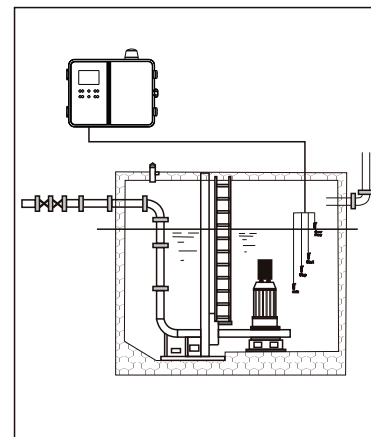
Feed water / Water transfer



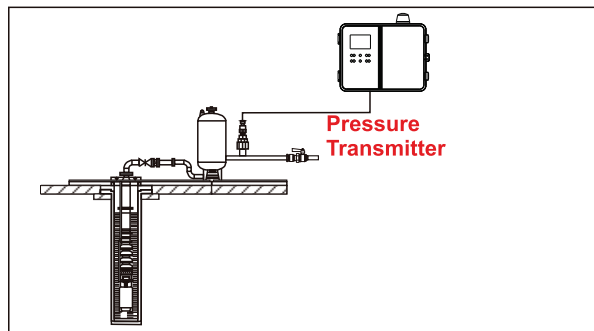
Pressure boosting



Drainage / Sewage



Pressure boosting by pressure transmitter



Drainage / Sewage by level transmitter

