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MULTI FUNCTION HYDROPHORE SEQUENCING RELAY

General:

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This product is developed for hydrophore pump systems that contain 2 or 3 to make the pumps work in sequence and with equal time periods.

The operating time can be set by the user between 1 and 100 minutes.

MODE: 2 or 3 pumping operations can be selected.

0 MPS If operation is selected for 3 pumps; 3 pressure switches are connected to the pressure tank(P1,P2,P3). The upper and lower setpoints of the pressure switches must be as follows. P1 max. ≥ P2max. ≥ P3max.

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P1min. > P2min. > P3min.

ROMPS If operation is selected for 2 pumps; 2 pressure switches are connected to the pressure tank(P1,P2). The upper and lower setpoints of the pressure switches must be as follows. P1 max. ≥ P2max.

P1min. > P2min.

IME : It is a time delay that can be adjusted between 1min and 100min to ensure that each pump works equally

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Operation Principle :

Hydrophore sequencing relay HSR, depending on the pressure swtiches that it commands, accepts P1 to be the highest

pressure switch, then P2 and then P3 to be the lowest pressure switch and though it takes pumps in sequence when the pressure in the tank decreases startting from the highest to the lowest . When only P1 pressure switch is on, the device

turns on the pump output H1 (if already on then it takes the next one) and for the following next (T) minutes (as long as P1 is on it keeps this possition). After 10 minutes if P1 is still on then the device turns off H1 and turns on H2 Same way after (T) minutes if P1 is still on then the device turns off H2 and turns on H3. This way the deivce

sequences the use of the pumps and divide the time between them. The device remembers the sequence and takes always the following pump.

When P1 is off, the hydrophore output which is on goes off too, and next time when P1 goes on the device takes the

next output (pump). For example: if H1 was switched off after P1 switch was off, next time when P1 switch goes on the

device takes the next output H2 on. If P2 switch goes on while P1 is on then the device takes the next pump that is not already on. The pumps then are shared in time the same way two by two. As long as P1 and P2 are on, the pumps will work as

H1-H2, H2-H3, H3-H1 f or (T) minutes for each couple. If P2 goes off, the device turns off the pump is row and works

as mentioned above with one pump. While P1 and P2 are on, if P3 goes on too then the device takes the three pumps H1, H2 and H3 until P3 is off . When the pressure switches go off the device turns off the pump that is in the row sharing time between the pumps again as mentioned hefore

If P2 goes on bef ore P1 (P1 may be out of order) then the device will start turning H1 on.





