

Level Master flip/flop – AKA FLIPPER

Summary of Relay functions.

1. It operates on 24VAC & all float inputs etc are 24VAC which eliminates the need for the RCD & gets the 240V off the floats. The inputs consume about 25mA each which is a lot for an input but this is needed to keep the contacts in the floats functional.
2. It operates 2 pumps & after every pump stop input, it then alternates the first pump to start. (Will no longer need the latching relays from Rob)
3. The alarm Buzzer is inbuilt. The buzzer pulses instead of emitting a continuous tone.
4. There is an output for an external buzzer. Typically this will be mounted in the bottom of the enclosure and has a moderate IP rating (54).
5. There is a mute button on the controller & connections for an external mute as well, typically a push button on the side of the enclosure.
6. All inputs have timers. Pump Start inputs are 1sec, Pumps stop is 0.5 sec, Alarm is 5 secs & Mute is 0.2.
7. If the internal mute button is held on for 5 seconds the internal buzzer & strobe output will turn on.
 - a. If held down for a further 2 seconds then the External buzzer output will turn on.
 - b. If held down for a further 1 second then the Pump 1 LED will turn flash.
 - c. If held down for a further 2 seconds then the Pump 1 Output will turn on. (Pump 1 LED stay ON)
 - d. If held down for a further 1 second then the Pump 2 LED will turn flash.
 - e. If held down for a further 2 seconds then the Pump 2 Output will turn on. (Pump 2 LED stay ON)
 - f. Releasing the internal mute button at any time stops the test & turns off all outputs.
 - g. (All outputs are turned off even if they were on prior to the start of the test)
8. A bonus feature that is available via the test software is a Reset function.
 - a. If the internal mute button is held on for 5 seconds until the internal buzzer turns on, then release the internal mute button, this turns off all outputs including pumps, buzzers, strobes and reset the mute function. (Normally the power would need to be cycled to do this same function).
9. The Pump 1 & 2 outputs & the Strobe output have a common supply terminal, typically this would be 240VAC to drive contactors etc but if required it could be any voltage, there is a Max of 3Amps on each output. Contactors should be fitted with snubbers as per all other Techys products.