

YSC-3EX and Batch Controllers

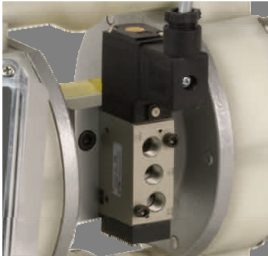
Pump Controller:

- Simple to Operate - No complicated programming required
- Self Contained - No external sensor input required
- 12VDC Single Solenoid standard and optional output
- NEMA 4 plastic enclosure - For use in wet or harsh environments
- Speed Control or Batch Capable - Capable of controlling cycle rate. Capable of shutting off at a predetermined amount
- Display - Cycles per minute, total cycles, or flow rate (English or Metric Units)

**YSC-3EX
Speed Controller**



**YSC-B
Batch Controller**



Pump Solenoid

Pumps sold separately



YSC-3 Instructions

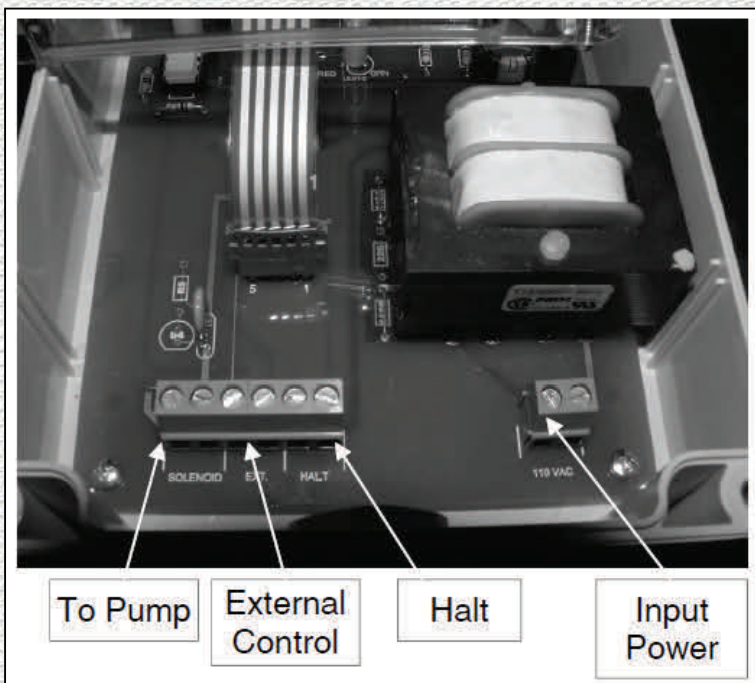
BASICS:

The YSC-3EX controller is engineered to provide speed control of a Solenoid-operated AODD pump. You can set the speeds in a range of 1 - 400 cycles per second. A cycle is defined as emptying both pump chambers at once. The system requires 110 volts AC (input) (220-240 also available) to power it and delivers 12 (standard) or 24 (optional) volts DC to the pump solenoid. You must use the appropriate pump solenoid* when using a YSC-3EX. The system is programmed using the 4-button keypad on the enclosure. The connections for remote usage are a terminal strip also on the circuit board. The circuit board is installed in a NEMA 4X plastic enclosure. The unit always comes up in the last preset it was used in and is ready to run seconds after power is applied.

PROGRAMMING:

All that is needed is to select the Preset you wish. Presets 1-3 are controlled from the front panel keypad. Preset "E" is for an external control switch. To set any preset's speed; simply select the preset and then push the Faster or Slower buttons to reach the desired speed setting. Start and Stop are controlled from the remaining button for presets 1-3. The unit also has a terminal for Halt. The Halt function stops the unit from sending voltage to the pump but the pulses are still generated and the counter still counts them. When the Halt function is active, the LED stays **RED** otherwise the LED will go **GREEN** when a voltage is sent to the solenoid on the pump.

Both the External and Halt terminals need a set of dry contacts to trigger them...never apply voltage.



* See Solenoid Controlled Pumps form# SV0412 or contact Yamada.

Dimensions	6-3/4" H x 4-3/4" W x 2-1/4" D
Enclosure Construction	NEMA 4X w/sealing gland for cable and boot for switch
Weight	1-1/2 lbs.
Power Consumption	12 Watts
Voltage Requirements	12 VAC or 220-240 VAC
Voltage Output (to Solenoid)	12 VDC 750 ma Maximum
Operating Temperature Range	40F to 100F
Speed Range	0.1 to 3600 seconds/stroke
Number of Batches	3 totally separate settings plus a "constant run" preset
Do not hose down the unit when cleaning	

