# FLS M9.50 **BATCH CONTROLLER**



The new FLS M9.50 is a electronic device dedicated to control accurately batching or blending of different liquids. A 4" wide full graphic display shows measured values clearly and a lot of other useful information. Moreover, thanking to a multicolor display plus a powerful backlight, batching status can be determined easily from afar also. A tutorial software guarantees a mistake-proof and fast set up of every settings. Few advanced options are available to increase precision as well as timing of batch. Possibility of setting different volumes (up to 10 batches) correlated to specific calibration factors maximizes system flexibility guaranteeing highest level of accuracy. A proper package of outputs grants to control and to monitor the batching system remotely.

## **APPLICATIONS**

- Batch processes
- Chemical additions
- Filling processes
- Blending applications
- Dosing system
- Bottling processes

## MAIN FEATURES

- Wide full graphic displayMulticolor backlight visualization
- · Help on board
- External start, stop and resume
- Intuitive batch volumes setting
- Two stage shutdown control
- Overrun compensation and alarm
- Missing signal alarm



## **TECHNICAL DATA**

#### General

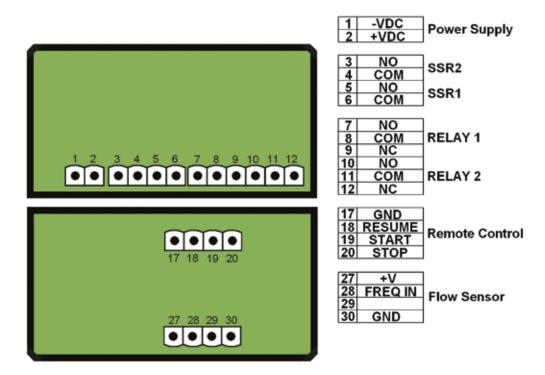
- · Associated sensors: FLS hall effect flow sensors with frequency output or FLS F6.60 Flow sensor magmeters
- Materials: - case: ABS
- display window: PC panel & wall gasket: silicone rubber
- keypad: 5-button silicone rubber
- Display:
- LC full graphic display
- backlight version: 3-colours
- backlight activation: User adjustable with 5 levels of timing
- update rate: 1 second
- enclosure: IP65 front
- Flow input range (frequency): 0÷1500Hz
- Flow input accuracy (frequency): 0,5%

#### Electrical

- Supply Voltage: 12 to 24 VDC ± 10% regulated
- FLS hall effect flow Sensor power:
- 5 VDC @ < 20 mA
- Optically isolated from current loop
- Short circuit protected
- 2 x Solid State Relay output:
  Optically isolated, 50 mA MAX sink, 24 VDC MAX
- pull-up voltage
- Max pulse/min: 300
- Hysteresis: user selectable
- User selectable as: Two-stage shutdown, overrun or
- missing signal alarm
- 2 x Relay output:
- Mechanical SPDT contact
- Expected mechanical life (min. operations): 107

## WIRING CONNECTIONS

**Rear Terminal View** 



- Expected electrical life (min. operations): 10<sup>5</sup> N.O./ N.C.switching capacity

- 5A/240VAC
- Max pulse/min: 60
- Hysteresis: User selectable
- User selectable as:
- OUT1 Option: Two-stage shutdown, overrun or missing signal alarm

OUT2 - Batch: Batch in progress indication

#### **Environmental**

- Operating temperature: -20 to +70°C (-4 to 158°F)
- Storage temperature: -30 to +80°C (-22 to 176°F)
- Relative humidity: 0 to 95% not condensing

#### **Standards & Approvals**

- Manufactured under ISO 9001
- Manufactured under ISO 14001
- CE
- RoHS Compliant
- GOST R

# ORDERING DATA

M9.50 Batch Controllers						
Part No.	Description /Name	Power supply	Wire power Technology	Sensor Input	Output	Weight (gr.)
M9.50.P1	Panel mount Batch controller	12 - 24 VDC	-	Flow (Frequency)	2*(S.S.R.), 2*(mech. relay)	550
M9.50.W1	Wall mount Batch controller	12 - 24 VDC	-	Flow (Frequency)	2*(S.S.R.), 2*(mech. relay)	650
M9.50.W2	Wall mount Batch controller	110 - 230 VAC	-	Flow (Frequency)	2*(S.S.R.), 2*(mech. relay)	750