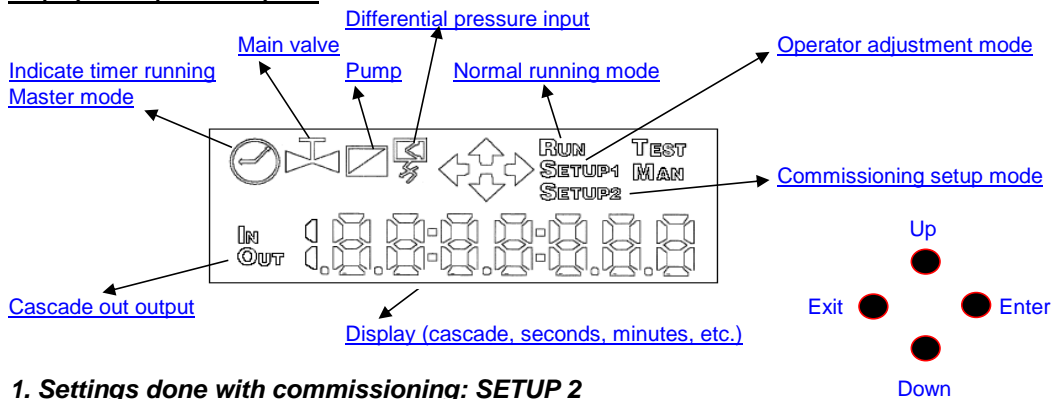


## AC GULF Flushman Controller Operation Manual:

### Display Description & Lay-out:



### **1. Settings done with commissioning: SETUP 2**

Press both up and down keys simultaneously to enter SETUP 2 mode:

NB: All time values in this mode are in seconds.

To change values in this mode use the up or down key.

#### **Setup 2**

<b><u>Setting 1:</u></b>	<b>Number of filters</b>	1 - 8	
<b><u>Setting 2:</u></b>	<b>Alternative Filter Flush</b>	0 = Disable	1 = Enable
<b><u>Setting 3:</u></b>	<b>Time between filters:</b>		
	Time between Filter 1, Filter 2, Filter 3, Filter 4, etc. while flushing.		
<b><u>Setting 4:</u></b>	<b>Main Valve option:</b>	0 = Disable	1 = Enable
<b><u>Setting 5:</u></b>	<b>Main Valve Delay:</b>		
	The time between the activation of the main valve and the start of the flush cycle.		
<b><u>Setting 6:</u></b>	<b>Pump Option:</b>	0 = Disable	1 = Enable
<b><u>Setting 7:</u></b>	<b>Cascade Function:</b>	0 = Disable	1 = Enable
<b><u>Setting 8:</u></b>	<b>Differential Pressure Switch:</b>	0 = Disable	1 = Enable
<b><u>Setting 9:</u></b>	<b>Differential Pressure Delay :</b>	Seconds	
<b><u>Save :</u></b>	<b>1 = Save</b>	<b>0 = Keep original setting</b>	

At Setting 9 'enter' can be used to save the values or 'exit' can be used at any other stage.

### **2. Operator Adjustment: SETUP 1**

Enter the SETUP 1 Mode by pressing the Enter button.

To change values in this mode use the up or down key.

#### **Setup 1**

<b><u>Setting 1:</u></b>	<b>Flush Cycle Time:</b>	Minutes
<b><u>Setting 2:</u></b>	<b>Filter Flush Duration:</b>	Seconds
<b><u>Save :</u></b>	<b>1 = Save</b>	<b>0 = Keep original setting</b>

### **3. Manual Flush: MAN Mode**

#### **MANUAL Mode:**

To use this function press both the enter key and the down key.

NB: Ensure to first press the down key and then the enter key.

Numbers 1 - 8 indicates the 8 filter outputs.

Number 9 indicates the main valve.

A indicates the cascade out output.

B indicates the pump relay output.

Use the up and down keys to toggle between on and off.

**Note:** During this function the normal flush cycle operation will be disabled.  
Only one output can be switched at a time.  
Use exit key to return to normal running mode (RUN).

#### **1 Operation:**

##### **1.1 Master mode:**

In master mode (not cascade) the timer running indicator (top left) flashes to indicate that the timer is running.

The remaining time to the next flush cycle will be displayed in minutes.

##### **1.2 Cascade mode:**

In cascade mode the word "CASCADE" will be displayed with flashing colons.

##### **1.3 Flush cycle:**

At the start of the flush cycle the display indicates the number of the flushing filter (on the left) and the seconds counting down for the flush duration of that filter (on the right).

Once the flush is completed for the first filter an underscore ( \_ ) will appear on the left which indicates the delay between filters flushing and the delay seconds will start counting down on the right. The next filter flush follows. After the last filter has flushed the Cascade out output will appear on the left in the form of "Out".

##### **1.4 Alternative flush mode:**

In alternative filter flush mode the next filter in sequence starts at the next flush cycle.

##### **1.5 Main Valve Option:**

If the main valve option is enabled the main valve will be activated after the delay number of seconds before the flush cycle starts and remain activated until the last filter has flushed.

##### **1.6 Pump Option:**

If the pump option is enabled the pump relay will be activated for the flush cycle period.

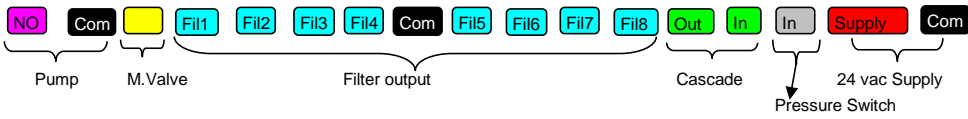
##### **1.7 Pressure Differential Input:**

If this option is enabled an input will be indicated. The input is filtered by an adjustable time. It starts the flush cycle or main valve if enabled.

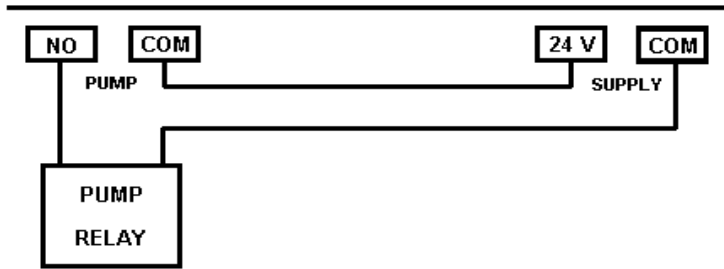
**The controllers display returns to normal running mode (RUN) if no button is pressed for 60 seconds.**

**The normal cycle time continues to function in the background until the desired changes are confirmed.**

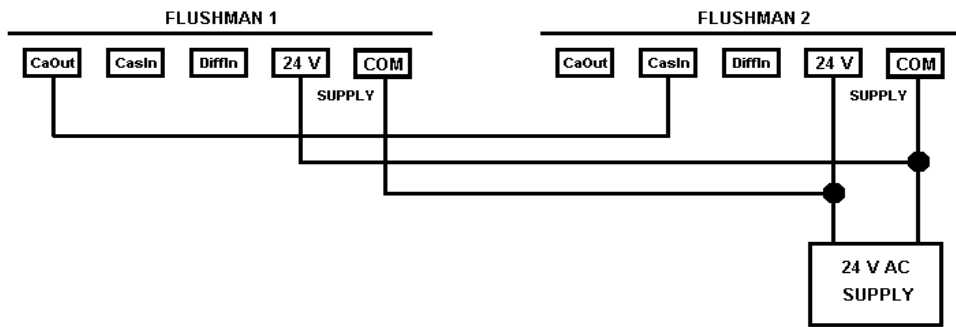
**Wiring :**



**Pump Wiring :**



**Cascade wiring :**



NOTE : Supply wires must be swapped on second FLUSHMAN (24V to COM & COM to 24v).

**Pressure Differential Input :**

