Arkal Filter Control

Contact Energy

Filter Control Board

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Operation

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He Filter control module monitors the differential pressure across the filter Pack and also counts the amount of filter flush cycles. If the filter pack is constantly flushing and not able to clear the high differential, then the bypass will be opened and an alarm will be raised.

Refer to the Arkal filter documentation to maintain a blockage in the filter.

Control

The reset button will be illuminated on the front of the panel if the filter control has operated the bypass valve. To resume normal operation reset the filter control by pressing the illuminated button. The light should extinguish and the bypass valve should close, if the DP (Differential Pressure) has returned to normal.

Settings

The filter control board has a dip-switch installed on the PCB.

Refer to the Arkal documentation, the Arkal filter also has a dipswitch on it’s PCB.

Copy the dipswitch positions onto the Bypass Control Board’s dip-switch.

Switch 1 –“On” puts the controller into test mode.

Switch 1 –“Off” puts the controller into service mode.

## DIP – SWITCH SELECTIONS

1. - 1 ( 1 = test mode 0=Service )
2. 0 1 0 1 (Consecutive flush cycles to failure)
3. 0 0 1 1
4. 0 - 5 loops)
5. 0 - 10 loops)

(0 1 - 15 loops)

(1 1 - keeps flushing)

1. 0 1 0 1

5 0 0 1 1

1. 0 - 0 seconds delay before reacting to DP)
2. 0 - 10 seconds delay)

(0 1 -30 seconds delay)

1. 1 -60 seconds delay)
2. 0 0 0
3. 0 0 0
4. 0 0 0

(000 0 seconds delay before reacting to DP)

(100 10 seconds delay)

(010 30 seconds delay)

(001 60 seconds delay)

(110 0 seconds delay before reacting to DP)

(101 30 - 10 seconds delay)

(011 35 seconds delay)

(111 -40 seconds delay)

If a DIP-Switch setting is changed, then press the reset button on the front of the panel to accept the change and update the electronic register.

Connection Diagram

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Maintenance

There is no maintenance required apart from testing and inspecting the operation of the controller at regular intervals.

Schematics

Firmware Listing