



FILTER CONTROL CONSOLE

GENERAL DESCRIPTION

The filter control consoles are used in municipal water treatment plants for controlling the operations of filters. The filter control console allows both automatic operation as well as manual operation of the filters by controlling the filter valves, penstocks, air blower etc.

FEATURES

- PLC based automatic operation with full manual override.
- Suitable for single and twin bed filters.
- Can be used for control of motorized, pneumatic actuated, or hydraulic actuated valves and penstocks.
- Stand alone operation as well as link up to all filters and plant wide SCADA network.
- Fully programmed and tested.
- Customizable to suit all operation sequence requirements.
- Security with password to avoid unauthorized change of settings such as timers etc.
- Easy maintenance through use of standard high quality industrial components.

SPECIFICATION

■ Construction

Mounting : Floor mounting

Material : Mild steel / Stainless Steel (optional)

Finish : Epoxy powder coating / Polyester powder coating (optional)

Environmental Protection : IP 40 / IP 65 (optional)

Power Supply : 240V ac 50Hz / 24V dc (optional)

■ Display

LED digital indicators for display of :-

- filter loss of head (with high alarm set point)
- filtered water flow (optional)



- filtered water flow (optional)
- backwash water flow (optional)
- air scour flow (optional)
- air scour pressure (optional)

LED text display with 2 x 20 characters for display of:-

- filter operation status (service, backwash, fault etc)
- timer and counter
- alarm message

■ Control and Feedback

For control of motorized valves & penstock
- *output*: volt free contacts

For control of pneumatic actuated valves and penstocks

- *output connection*: Bulk head pneumatic fitting for single or double acting actuators

For control of hydraulic actuated valves and penstocks

- *output connection*: Bulk head hydraulic fittings for single or double acting actuators

For control of motors: volt free contacts

Feedback from valves and penstocks: limit switches fitted on valves and penstocks for full open, full close or intermediate positions

Continuous position feedback (optional)

- potentiometer or 4 to 20 mA Modulating Control (optional)

- 4 to 20mA output for modulating control



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OPERATION MODES

Can operate in fully automatic, semi-automatic or manual modes

Automatic Mode : Fully automatic operation with automatic start up of backwash operation when:-

- loss of head high
- service time expired
- manual initiation

Semi Automatic Mode : Automatic operation with manual initiation of backwash sequence

Manual Mode : Individual open/close remote control of valves and penstocks, and remote start/stop of air blowers

OPTIONS

Material of construction

IP : IP65 weatherproof enclosure

PE : Polyester powder coating

PID : PID control with 4 to 20 mA output

SC : SCADA Interface

ETH (Ethernet)

MOD (Modbus)

PRO (Profibus)

ORDERING INFORMATION

Model : FCC 00

Bed

1 : Single Bed

2 : Twin Bed

No of Valves/Penstocks

3 : 3 Nos

4 : 4 Nos

5 : 5 Nos

6 : 6 Nos

7 : 7 Nos

Types of valves

M : Motorised

P : Pneumatic

H : Hydraulic

No of digital indicators

1 : 1 no

2 : 2 nos

3 : 3 nos

4 : 4 nos

5 : 5 nos

6 : 6 nos

Material of construction

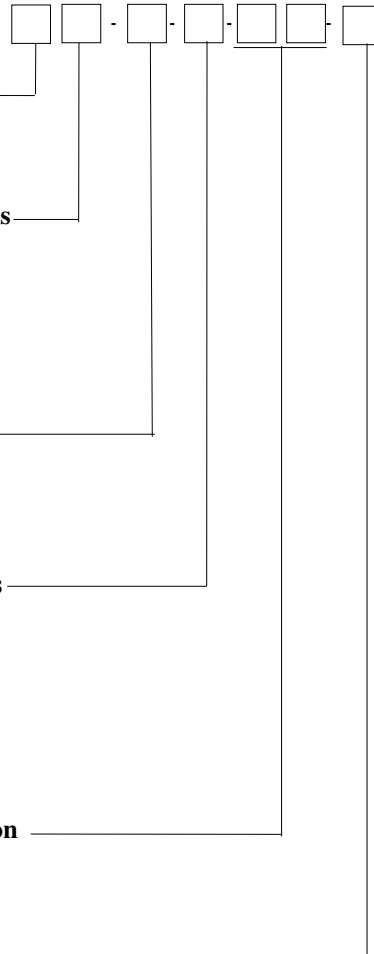
MS : mild steel

SS : stainless steel

Power supply

A : 240VAC, 50Hz

O : 24VDC



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