SOP08P V16 85-264V

Filter cleaning controller

UP TO 16 VALVES

The controller is mounted in a small plastic housing with IP65 protection. It can be powered directly by 85-264V AC mains voltage. The controller can be installed both on a 35 mm DIN rail and on a filter construction. The system works in cyclic or automatic mode. In automatic mode, the control algorithm constantly checks the value of the pressure difference across the filter. After exceeding the set dP limit, the system turns on the valve for a pulse time. The next valve is activated after the time between pulses when the pressure difference is still greater than the limit value dP. If the set dP alarm value is exceeded, an alarm is generated. In cyclic mode, all connected valves are switched on successively for the duration of the pulse. After the pulse of each valve, the time between pulses is counted down. After the last valve pulse, the system counts down the time between cycles and starts operation from the beginning – from the first valve. The controller constantly checks the correct operation of the valves and in the event of a fault an alarm is generated. The number of connected valves can be set in the control panel from 1 to 16. The controller is equipped with an operator panel with a 2 x 8 character LCD screen mounted on the top cover of the controller, enabling parameter setting and system operation control. The controller is placed in a dustproof IP65 housing with a safety flap adapted for closing with a padlock.
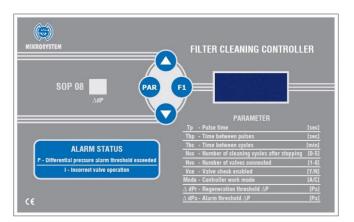
System Data:

1. Digital outputs (24V DC / 1.6A) Valve control ……………………….……. 16 pcs.
2. Digital input (start / stop) of regeneration …………………………………. 2 pcs.
3. Relay output (normally open contact) 2A / 230V AC (alarm signal) ……… 1 pcs.
4. Analog output dP 0 – 5,0 kPa...4-20mA (max. 500 ohm)
5. Valve supply voltage ………………………………………………..…. 24V DC
6. Maximum power consumed by the valve …………………………………. 36 W
7. Pulse time range [Tp] …………………………………………… 0.05 – 1,00 sec.
8. Range of intervals between pulses [Tbp] ……………………….…. 3 – 250 sec.
9. Pause range between cycles [Tbc] ………………………………. 0 – 60 min.
10. Differential pressure measuring range...0 - 5,0 kPa
11. Adjustable differential pressure limit dP...0,2 - 4,4 kPa
12. Controller supply voltage …………………………….……85-264V AC, 50Hz, 50W
13. 2 connectors for connecting a differential pressure....................................Fi6/4
14. Dimensions (width-height-depth) ……………………………..… 166x161x121 mm

PARAMETER	range	unit change	set in memory
Regeneration threshold **dPr** [Pa]	200-4400	20	1000
Alarm threshold **dPa** [Pa]	200-5000	20	2000
Pulse time **TP** [s]	0,05-1,00	0,01	0,15
Time between pulses **TBP** [s]	3-250	1	3
Time between cycles **TBC** [min]	0-60	1	0
Number of cleaning cycles after stopping **Ncc**	0-5	1	1
Number of valves connected **Nvc**	1-16	1	16
Controller work mode **Mode**	A/C		C
Valve check enabled **Vce**	Y/N		Y