

FEATURES

- ❑ Microcontroller based
- ❑ Digital display
- ❑ Keyboard programmable
- ❑ Cascade option
- ❑ Modular construction
- ❑ Weather-proof IP54 Enclosure
- ❑ Provides longer filter life and optimum system performance



The Bag Filter Timer BF-200 is a specially developed electronic unit for controlling cleaning cycles of bag filters available in various models to suit different output requirements. The timer energizes a solenoid valve, thus triggering the momentary pulse of high pressure compressed air down into a row of filter bags. This pulse of air will expel the dust from the surface of the filter. The timer closes the valve after a specified time and the filter starts working in the ventilation mode. Two modes of operation are available namely Continuous cycle and On-demand filter cleaning. In the continuous cycle operation the bags are continuously cleaned. The on-demand operation is based on differential pressure where as the filter bags become dirty, the differential pressure across the surface increases. If the filters are cleaned based on differential pressure they will be cleaned only when necessary reducing the number of cleaning cycles, thereby extending filter life. Interlocking is provided with the compressed air pressure switch and the timer stops if the compressed air falls below preset level. Both On-line and Off-line types are available with BF-200. If the number of outputs required is larger than what a single unit can cover, timers can be connected in series in a master-slave configuration.

SPECIFICATIONS:

GENERAL :

No. of channels	8 to 48 channels per timer can be cascaded for more channels.
Initiation	<ul style="list-style-type: none"> ❑ Auto: Self, on POWER ON ❑ Local: Through remote contact
Input power supply	110 or 230 V AC +/-10%, 50 Hz +/-3%, 1 Ph AC, 5 VA max.
Solenoid power	230V AC or 110V AC or 24V DC
Outputs	Relay outputs suitable to drive Solenoid valve 30VA max
Display	<ul style="list-style-type: none"> a) Power ON. b) Channel energisation and de-energisation through LED. c) PROG, RUN, MAN, REM, LP LEDs
Cable entry	Bottom cable entry gland plate provided.
Connection	PCB connection: COMBICON plug-in screw connectors Field connections: Screw terminals, 2.5 sq.mm / 1.5 sq.mm
Mounting	Wall / Structure mounting
Enclosure	MS with front double hinged door, Powder coated
Enclosure protection	Wall mounting type, MS enclosure dust & weather proof, IP-55 rating, with double door & detachable gland plate
Ambient temperature	0 deg.C to 55 deg. C
Ambient humidity	95% maximum, non-condensing

TIMING & LOGIC:

ON LINE VERSION:

Programmable Parameters

- Channel interval time (OFF Time) – 5 to 30 sec.
- Channel ON time (ON Time)– 50 to 200 ms
- Last Channel – 1 to 48

Cycle time

120 sec. (minimum fixed)

OFF LINE VERSION:

Programmable Parameters

- Channel on time – 50 to 150 msec
- Channel interval (OFF) time – 5 to 50 sec
- Pre-null time – 0 to 300 sec
- Collection time – 0 to 120 sec
- Damper close time – 0 to 30 sec
- Damper open time – 0 to 30 sec

Note: Post-null time is fixed, 7 × Interval time

No. of compartment / chambers

1 to 9 Programmable

No. of purging solenoid per compartment / chamber

Programmable.

No. of damper relay per compartment

2 Nos. (Close & Open)

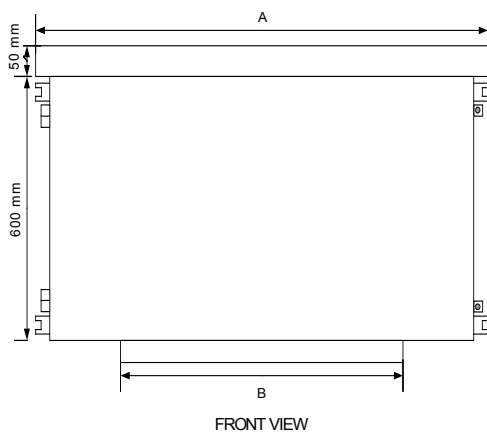
Operating Modes

Programmable: Offline Stand-alone, Offline Master, Offline Slave

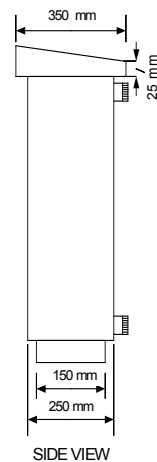
Output contacts for external indication & Master / Slave Operation

2 NO Relay contacts.

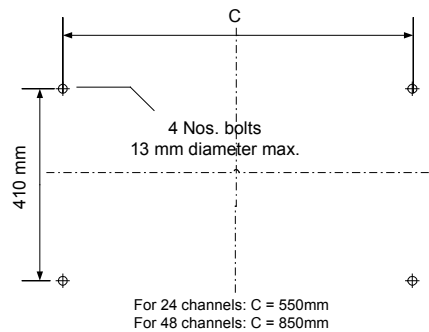
DIMENSIONS IN mm:



Upto 24 channels: A = 600mm, B = 400mm
Upto 48 channels: A = 900mm, B = 650mm



MOUNTING DETAILS:



Note: For off-line application total no. of outputs required per chamber will be no. of purging solenoids plus two for damper.

ORDERING CODE:



0 = ON-LINE
1 = OFF-LINE

No. of Outputs:
0 = 8 outputs
1 = 16
2 = 24
3 = 32
4 = 40
5 = 48
6 = 56
7 = 64
8 = 72

Timer Power Supply:
0 = 230 V AC
1 = 110 V AC

Solenoid Power Supply:
0 = Timer Power Supply
1 = 24 V DC

Operational Logic:
0 = Standard logic
Additional logic for On-line version:-
1 = On-demand cycle with Single DP input
2 = On-demand cycle with Dual DP input
* DP: Differential Pressure
X = Others (consult factory)

SAMPLE ORDER CODE:
920-011-00
On-line, 16 channel, Timer & Solenoid power supply
110 V AC, Standard operational logic