

## FEATURES

- q Microcontroller based system
- q Modular construction
- q Keyboard programmable
- q 3 digit 7-segment digital display
- q Provides longer filter life and optimum system performance
- q IP54 Enclosure



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. Use of a bag filter timer translates to faster and more effective means of controlling dust at the plant.

## SPECIFICATIONS:

### GENERAL :

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
Cable entry	Bottom cable entry gland plate provided.
Connection	PCB connection: COMBICON plug-in screw connectors Unit connection: Screw terminals, 2.5 sq.mm / 1.5 sq.mm
Mounting	Wall / Structure mounting
Enclosure	MS with front 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 :

No. of channels	8 to 48 channels
Initiation	§ Auto: Self, on POWER ON § Local: Through remote contact
Channel interval time (OFF Time)	5 to 30 sec. Adjustable from keyboard
Channel ON time (ON Time)	50 to 200 ms adjustable from keyboard
Cycle time	120 sec. (minimum fixed)

**TIMING & LOGIC - OFF LINE VERSION :**

**Programmable Parameters**

1. Damper close time – 0 to 30 sec
2. Pre-null time – 0 to 300 sec
3. Channel on time – 50 to 150 msec
4. Channel interval time – 5 to 60 sec
5. Post-null time – 7 × interval time
6. Damper open time – 0 to 30 sec
7. Collection time – 0 to 120 sec

No. of compartment

1 to 6 Nos.

No. of relay outputs per compartment (card)

Total 8 Nos.

No. of damper relay per compartment

2 Nos. (Close & Open)

No. of purging relay per compartment

6 Nos.

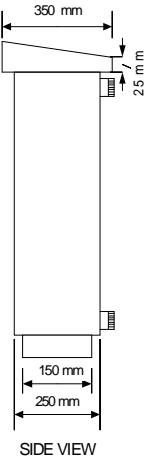
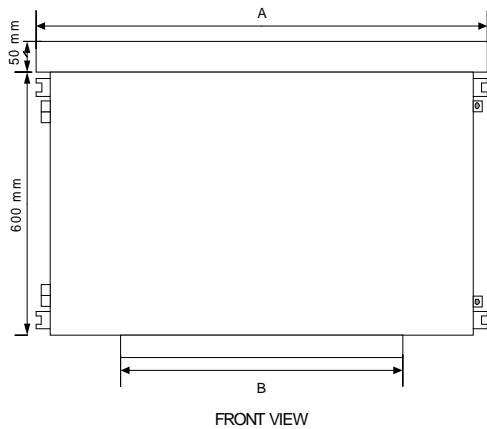
Initiation

- § Auto: Self, on POWER ON
- § Local: Through remote contact

Output contacts for external indication

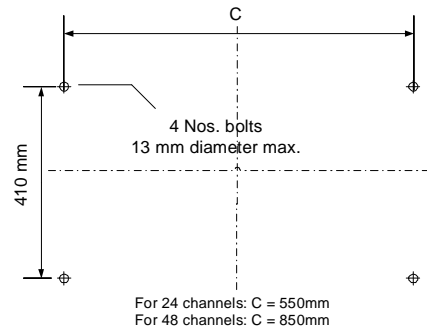
1 NO contact for Timer Run and 1 NO contact for Timer OK

**DIMENSIONS IN mm:**



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

**MOUNTING DETAILS:**



**ORDERING CODE:**



**OUTPUT TABLE:**

No. of Outputs	Chamber (Off-line)	Code
8	1	0
16	2	1
24	3	2
32	4	3
40	5	4
48	6	5

0 = ON-LINE  
1 = OFF-LINE

Outputs  
(Refer OUTPUT TABLE)

**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:**

**920-011-01**  
 On-line, 16 channel,  
 Timer power supply 110 V AC,  
 Solenoid power supply same as  
 input supply, On-demand cycle  
 with single DP point