



上海袋式除尘配件有限公司  
SHANGHAI BAG FILTRATION EQUIPMENT CO., LTD.

PULSE CONTROLLER

脉冲控制仪第三代

# DMK-3CSA



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# DMK-3CSA





# DMK-3CS SERIES

## PULSE CONTROLLERS

The core controlling functions are done by a single chip, including setup of press-key parameters, digital display and circulation intervals, impulse intervals and impulse width control. Input signals by differential pressures and selects stop/start modes to control dust removing operations.



### Type and Definition

DMK - 3 C S A - N R C



### Type and Specification

Model and Specifications      Output Digit

Model and Specifications	Output Digit
DMK-3CSA-5	5
DMK-3C-SA-10	10
DMK-3CSA-15	15
DMK-3CSA-20	20
DMK-3CSA-25	25
DMK-3CSA-30	30
DMK-3CSA-35	35
DMK-3CSA-40	40
DMK-3CSA-50	50
DMK-3CSA-60	60
DMK-3CSA-80	80
DMK-3CSA-100	100

### Technical Index

Rated Input Voltage	AC220V (1±10%) 50HZ-60HZ
Rated Output Voltage	DC24V
Rated Output Current	1A
Power Consumption	< 5W (Pulse duration and interval are within the specified range)
Adjustable Range of Output Pulse duration	0.01~0.99 Sec
Adjustable Range of Output Pulse Interval	1~99 Sec
Adjustable Bagrange of cycle interval	0~99 min
Input Signal of Pressure Differential	Switch contact
Working Environment	-25℃~+55℃ The relative humidity should be not more than 85% No serious corrosive gas or conductive dust No violent shock or impact

# Quality Certificate

Product Name: TIMER CONTROLLER

Product Model: DMK-3CSA-20 220VAC Input 24VDC output

Quantity: 1 PC

Working pressure: 0.2-0.6Mpa

Working Media: Clean air

Working Temperature: -25---80°C

Relative Humidity of Air:  $\leq 85\%$

Timer Life: 3 years

Reference Standard: JB/T5916-2013

Our products have passed the test according to JB/T5916-2013 standards.



# DMK-3CSA-xxX User Manual

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## 1. Introduction

The pulse jet controller is the main control device in the cleaning system. The controller output signals to drive the electromagnetic pulse for cleaning the filter bag in sequence.

## 2. Product Model and Implication

### DMK- 3CSA - xxX

**DMK:** Pulse Jet Controller

**3CSA:** Designed Serial

**xx:** Output Digits (10; 20; 30)

**X:** Identification

Table 1

Specification	Number of Valves
DMK-3CSA-10X	1~10
DMK-3CSA-20X	1~20
DMK-3CSA-30X	1~30

## 3. Technical Specifications

Table 2

Power	110-250VAC, 50/60Hz
Output Voltage	24VDC
Output Current	≤2A
Output Digits	1-xx
Input Signal	Stop/Run-input(X1, X2), insulated contact
Power Consumption	≤10W(Regular), ≤50W(Maximum)
Operating Environment	-10℃~55℃、relative humidity<85% No serious etchant gases, conductive dust, violent vibration or impact
Storage Temperature	-20℃~60℃
Weight	1kg
Dimensions	W×H×D 230mm×185mm×86mm

## 4. Operating

### 4.1 Sequence Chart

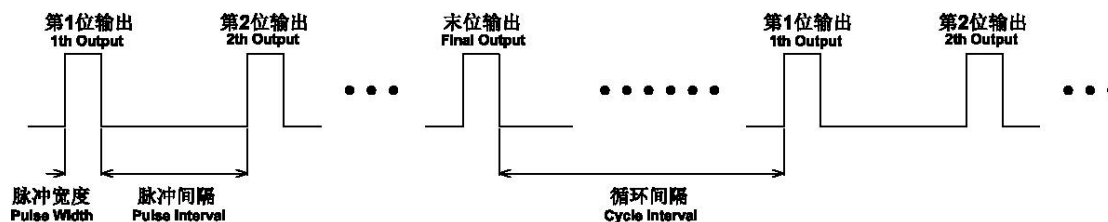


Figure 1

### 4.2 Parameters Setting

- Press the key “Set” to select the parameter and the LED will be illuminated.
- Use the key “+” or “-” to change the value.
- Press the key “Set” after finish setting all the parameters. The parameters will be saved and the LED “Run” will be illuminated.

### 4.3 Operating Mode

#### 4.3.1 Local Mode

Short the double-Pin “Local” by the “Jumper Cap”. The Controller will operate automatically after the power on.

#### 4.3.2 Remote Mode

- Remove the “Jumper Cap” on the double Pin “Local”.
- Connect the remote terminal “Stop/Run”. The Controller will operate or stop by the signal. It can be used for chaining the fan, DCS etc.

#### 4.3.3 Stop Mode (Enable in Remote Mode)

- Instant: The Pin “1, 2” of the three-Pin “Stop Mode” is short. When the remote signal is lost, the Controller will stop immediately.
- Final: The Pin “2, 3” of the three-Pin “Stop Mode” is short. When the remote signal is lost, the Controller will stop after the final output.

### 4.4 Manual

#### 4.4.1 Steps

Press the key “+” when the Controller is operating, there will be a next output immediately.

#### 4.4.2 Manual Output

Press the key “-” when the Controller is operating, the Controller will entry the mode “Manual”. There will be a output in sequence by pressing the key “+”.

## 5. Parameters List

Table 3

No	Name	Description	Range
1	Pulse Width	Unit: Sec	0.01-99.99
2	Pulse Interval	Unit: Sec	0-9999
3	Cycle Interval	Unit: 10×Sec	0-9999
4	Output Digits	Number of Valves	1~xx

## 6. Configuration and Installation

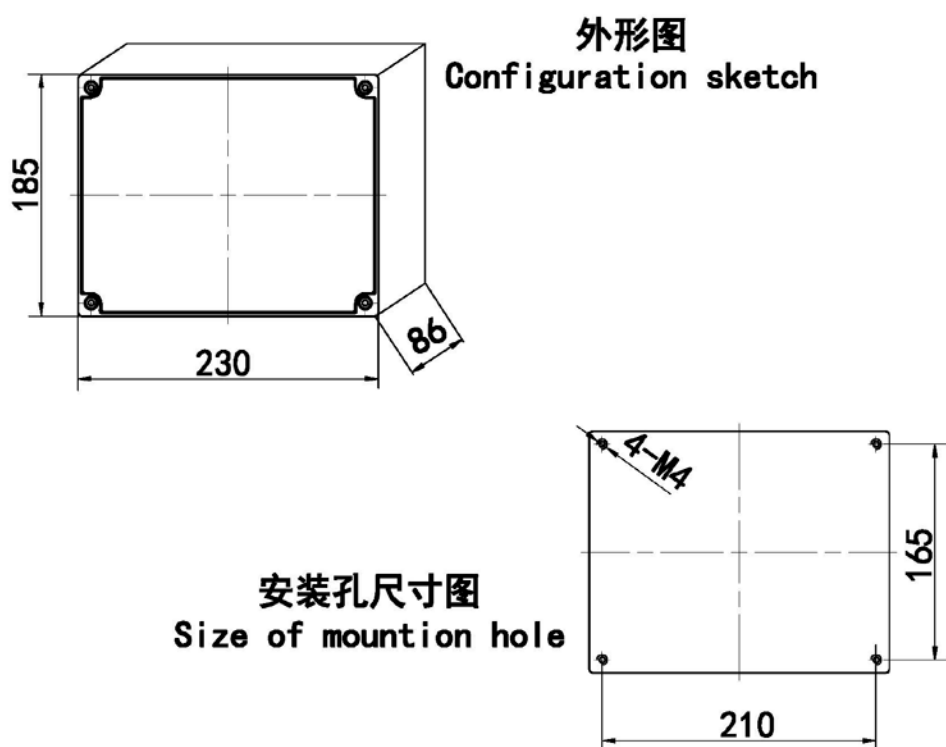


Figure 2



# 7. Wiring Diagram

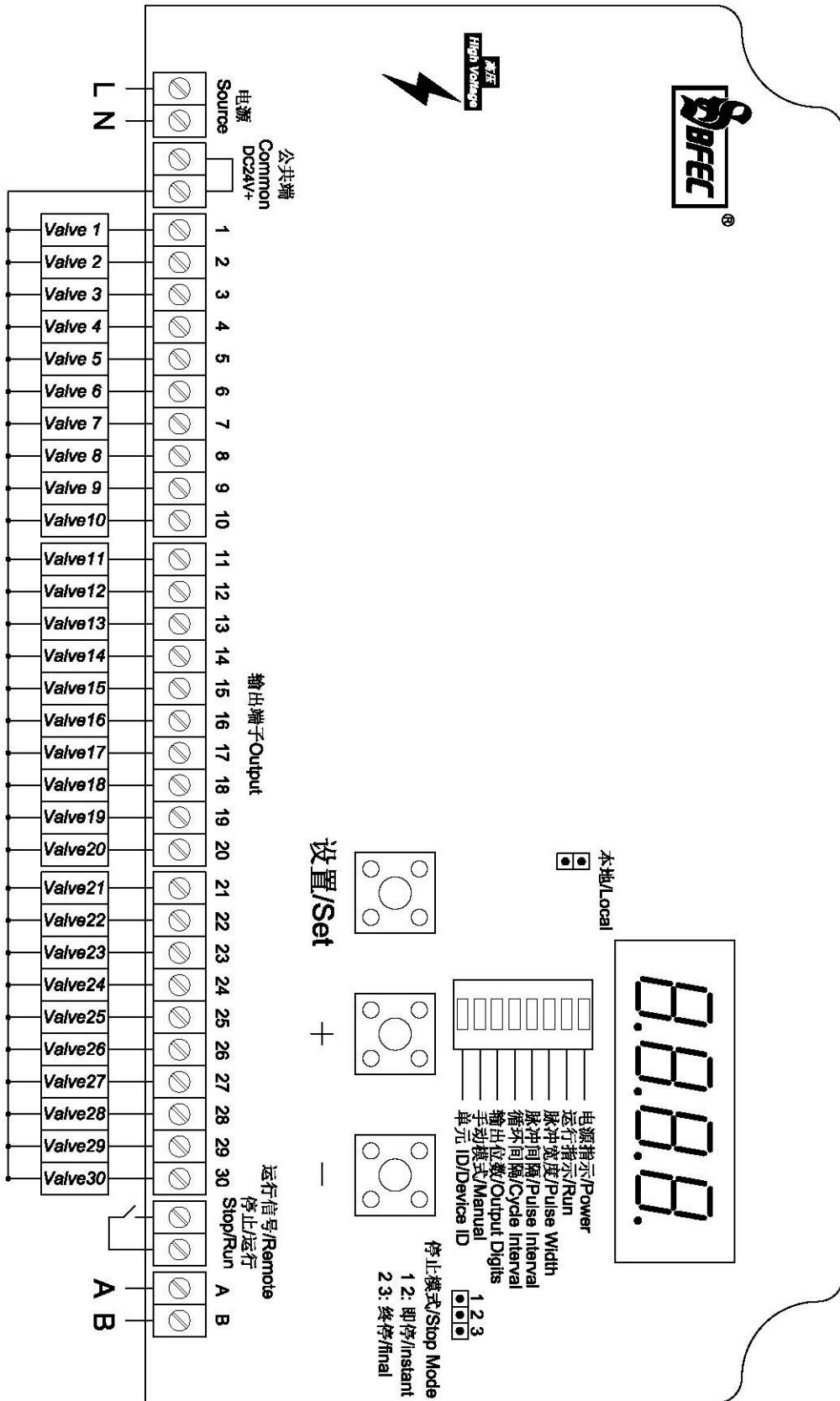


Figure 3