

Changzhou Xionghua Tongtai Automation Equipment Co., Ltd



User's Guide

Self Cleaning Filter Controller

GLQ-36

Brief information

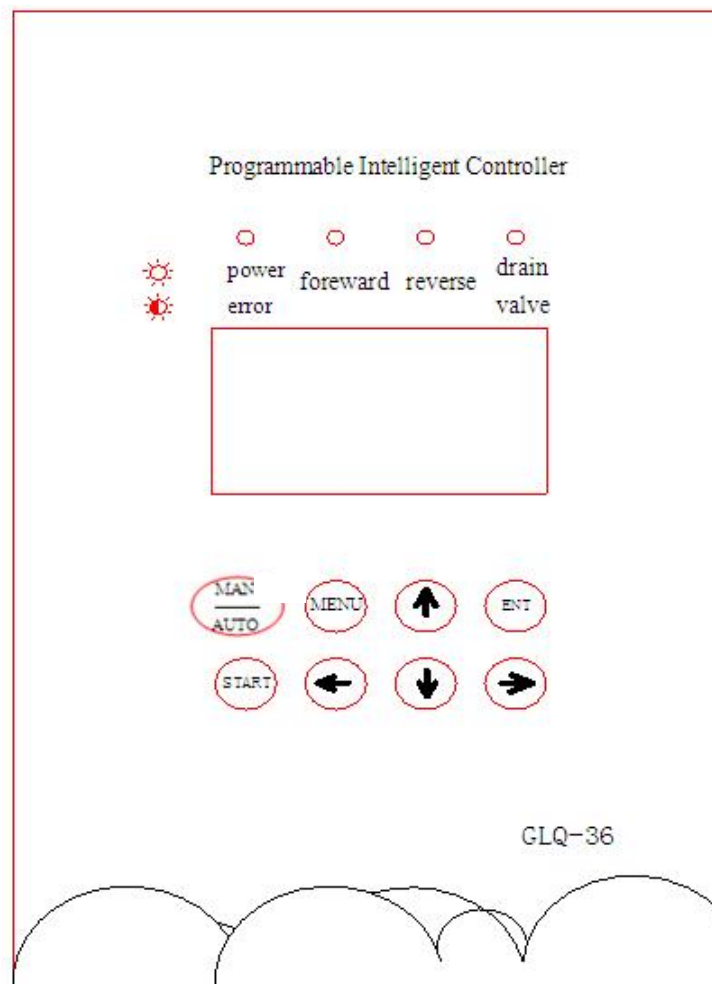
The controller is mainly provided to brush wash filter, electric multi-cylinder type, and back flush filter, and disc type self-cleaning filtration equipment. Today, the automatic filters have been used widely, so it is necessary to save cost, improve the performance as well as improve the competition of the products.

The controller is the control core of the automatic cleaning filter with multiple protection and alarm function and its performance even exceed foreign products. It has multiple control types with high control precision of time and voltage.

The controller adopts rapid CPU chip, power-off storage, built-in watch-dog circuit, and the elements adopt SMT process, easy to operate, and with text LCD(3-inch) operation interface, it can realize remote monitoring control. It can completely replace PLC.

Easy to use, it just need to connect with power, motor, electric valve, pressure switch, and proximity switch. Easy to test, just modifying the date, it will meet the operating condition. With small size, it is easy to fit on the filter.

Panel picture

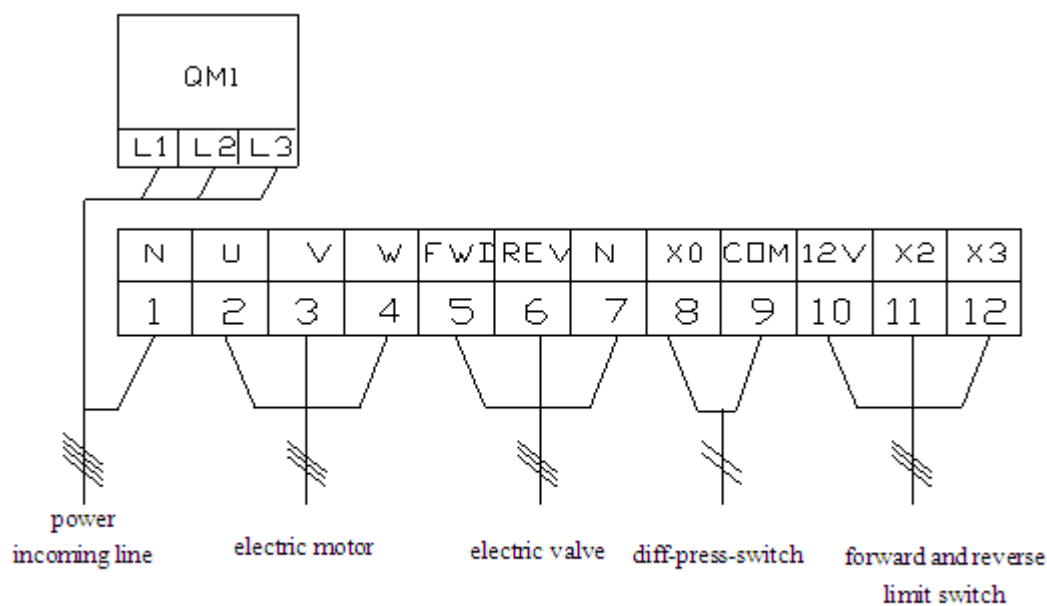


1- Indicator zone: the power light blinking symbolizes the error status.and the LCD screen displays the error cause.

2- LCD zone: all the work statuses are text display

3- Buttons zone

Terminal connection



- | | |
|-------------------|---|
| 1. 2/T1 4/T2 6/T3 | three-phase live line terminal (directly connect to three-phase air switch) |
| 2. N | three-phase zero line terminal of 4-line power |
| 3. U V W | three-phase electric motor |
| 4. FWD REV N | single-phase electric valve 'forward', 'reverse', 'zero line' terminal |
| 5. X0 COM | diff-press-switch external signal input terminal |
| 6. 12V | connect to the power terminal '+' of the access(limit) switch |
| X2 (X3) | connect to the conducted terminal of the access(limit) switch |
| COM | connect to the power terminal '-' of the access(limit) switch |

Operation

1. Application equipment selection

The same control box can control different type self cleaning filter, so the corresponding functions and the work modes must be selected before it is used.

Work mode : F9=0 suction-type filter mode

F9=2 brush wash filter mode (refer to the function code table 2)

2. Parameter set

After selecting work mode, set the work parameter, mainly including the filtering time, washing time(refer to table 2)

3.operation mode

A. Manual mode:

Press [Auto/Man], the screen displays ' manual mode', press \wedge 、 \vee to move the cursor to the object needed to be controlled.,then press [ENT], the screen display the work status of the object. If the user want to change the status, press [ENT] again

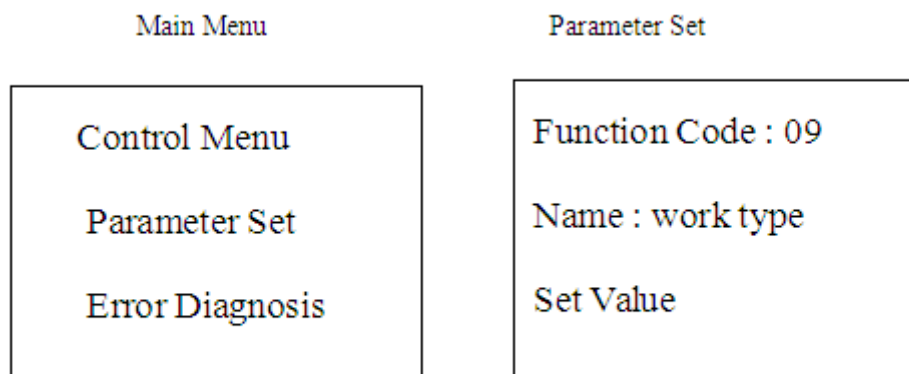
Note: From automatic mode to manual mode, all the objects are at rest status.

B. Automatic mode:

Press [Auto/Man], the screen shows 'automatic mode', and cursor buttons are useless. The operating time and the set time are showed on the screen. When it operates in cycle time(filtering time), the time start to counting down, and the cursor blinking means the program running status

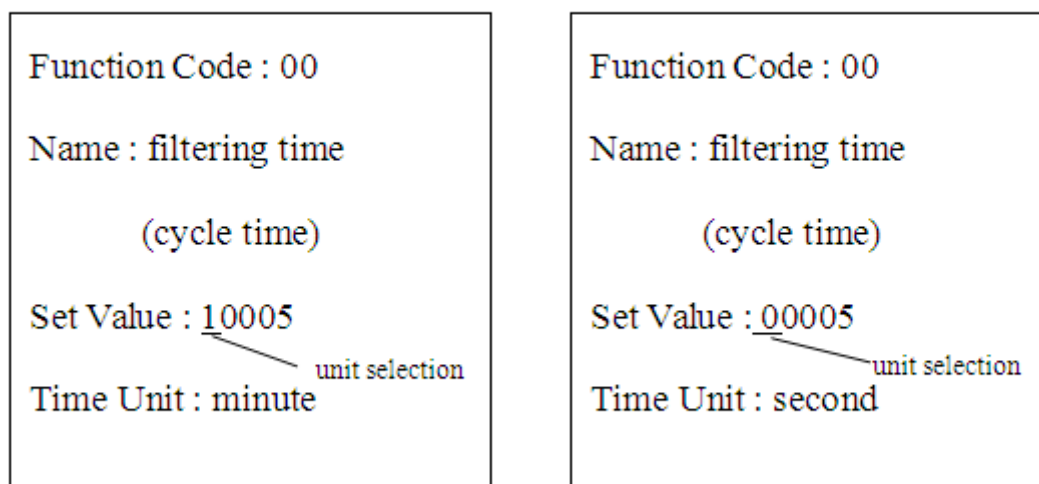
C. Parameter setting

Press [MAIN] to enter the main menu(following picture). Move the cursor to the position needed to be modified, then press [ENT] to enter the parameter setting status. Move the cursor to the position of function code selection to select the function code.



D. Selection of time unit:

Parameter Set

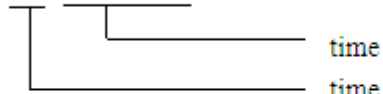


Left : the set time is 5 minutes

Right: the set time is 5s

Time unit selection:

0-0 9 9 9 9



time unit 0- 1 second

1- 1 minute

Example : 09999 9999*1s=9999s

19999 9999*1min=9999minutes

E. Error diagnosis

When the error indicator blink, return to the main menu and enter to the help menu showing the detailed error informations. According to the informations , take measures.

The specification of power

Item	GLQ-36
rated voltage	AC100V~240V
allowable voltage range	AC85V~250V
rated frequency	50Hz/ 60Hz
allowable momentary power-off duration	Machine can continue running if the momentary power failure is within 200 ms.
power fuse	250V 3A Φ5×20mm
input signal type	differential pressure input(dry contact)
input action	The LCD screen (3-inch)indicates when input connects.
input points	4 points (dry contacts)
Output action	The LCD screen indicates when output connects
Output points (controlled objects)	6 points : control the main motor forward/reverse, drain valve forward/reverse and error output

Mounting size:

The box is IP65 plastic water-proof.

The external dimension : Length*width*depth=290*190*140mm

Perforate dimension : 250*150

5mm fixed screw

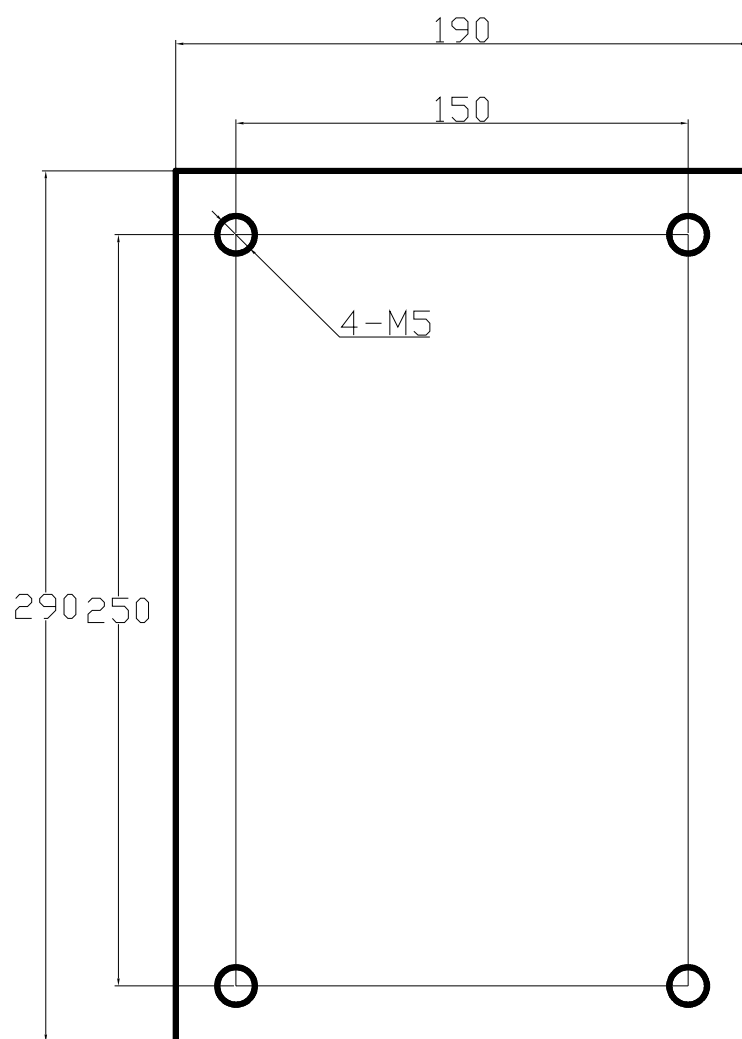


Table 2(brush wash filter application)

Function name	Function code	range	unit	Factory set	Use set
Filtering timing	(P0)	0—1 9999	minute	240	
Diff-pressure delay starting time	(P1)	0—1 9999	s	5	
Washing time	(P2)	0—1 9999	s	20	
Diff-pressure delay alarming time	(P8)	0—1 9999	s	300	When the set is 0, the function is useless.
Work type selection	(P9)	0-3		2	

- P0 cycle time
 P1 diff-pressure delay time
 P2 washing time
 P3 dosing delay time
 P4 dosing time
 P5 holding
 P6 holding
 P8 diff-pressure alarming delay time
 P9 work type selection
 0 - suction-type filter
 1- disc-type filter
 2- brush wash filter
 3- multi-core filter
 4- din-type filter

Contact information

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