FG series Industrial Frequency/Revolution Digital Meter User's Manual



Features:

- ⊙ Big LED display, easy to read
- High measuring accuracy, stable performance
- ⊙ FG*-**10 is for measuring frequency, revolution
- FG*-**10H is for measuring sine AC frequency
- Prescale coefficient setting function

For your safety, please read following content carefully before you use the meter!

■ Safe Caution

* Please read the manual carefully before you use the temperature controller.

* Please comply with the below important points.

Warning An accident may happen if the operation does not comply with the instruction.

Notice An operation that does not comply with the instruction may lead to product damage.

* The instruction of the symbol in the manual is as below.

⚠ An accident danger may happen in a special condition.

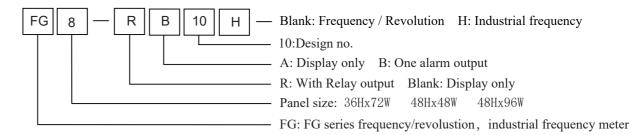
⚠ Warning

- 1. A safty protection equipment must be installed or please contact with us for the relative information if the product is used under the circumstance such as nuclear control, medical treatment equipment, automobile, train, airplane, aviation and equipment etc. Otherwise, it may cause serious loss, fire or person injury.
- 2. A panel must be installed, otherwise it may cause creepage (leakage).
- 3. Do not touch wire connectors when the power is on, otherwise you may get an electric shock.
- 4. Do not dismantle or modify the product. If you have to do so, please contact with us first. Otherwise it may cause electric shock and fire.
- 5. Please check the connection number while you connect the power supply wire or input signal, otherwise it may cause fire.

∧ Caution

- 1. This product cannot be used outdoors. Otherwise the working life of the product will become shorter, or an electric shock accident may happen.
- 2. When you connect wire to the power input connectors or signal input connectors, the moment of the No.20 AWG (0.50 mm2) screw tweaked to the connector is 0.74n.m 0.9n.m. Otherwise the connectors may be damaged or get fire.
- 3. Please comply with the rated specification. Otherwise it may cause electric shock or fire, and damage the product.
- 4. Do not use water or oil base cleaner to clean the product. Otherwise it may cause electric shock or fire and damage the product.
- 5. This product should be avoid working under the circumstance that is flammable, explosive, moist, under sunshine, heat radiation and vibration. Otherwise it may cause explosion.
- 6. In this unit it must not have dust or deposit, otherwise it may cause fire or mechanical malfunction.
- 7. Do not use gasoline, chemical solvent to clean the cover of the product because such solvent can damage it. Please use some soft cloth with water or alcohol to clean the plastic cover.

1.Code Illustration



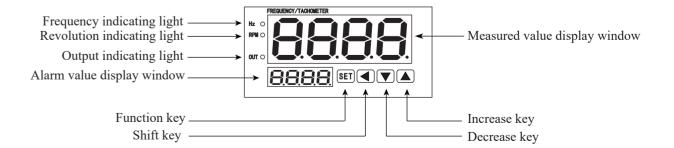
2.Model Indication

Model	Size	Display	Function	Input signal level	Alarm
FG3-A10	36H*72W	Dual row 4 digit	Frequency, revolution	L:0~2Vdc H:5~30Vdc	No
FG3-RB10	36H*72W	Dual row 4 digit	Frequency, revolution	L:0~2Vdc H:5~30Vdc	One alarm
FG4-A10	48H*48W	Dual row 4 digit	Frequency, revolution	L:0~2Vdc H:5~30Vdc	No
FG4-RB10	48H*48W	Dual row 4 digit	Frequency, revolution	L:0~2Vdc H:5~30Vdc	One alarm
FG8-A10	48H*96W	Dual row 4 digit	Frequency, revolution	L:0~2Vdc H:5~30Vdc	No
FG8-RB10	48H*96W	Dual row 4 digit	Frequency, revolution	L:0~2Vdc H:5~30Vdc	One alarm
FG8-A10H	48H*96W	Dual row 4 digit	Industrial frequency	60~450VAC	No
FG8-RB10H	48H*96W	Dual row 4 digit	Industrial frequency	60~450VAC	One alarm

3. Technical Parameters

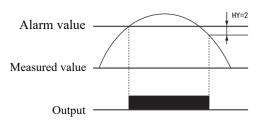
Function	To measure frequency		
Input mode	Frequency/Revolution: L:0~2V, H: 5~30VDC. Industrial Frequency:60~450VAC		
Measuring range	Frequency:0.1~5000Hz,Industrial Frequency:0.1~1000Hz,Revolution:6~9999RPM		
Measuring accuracy	±0.1% (25°C±5°C)		
Power consumption	≤3VA		
Input impedance	FG3-**10、FG4-**10、FG8-**10≥10KΩ, FG8-**10H≥300KΩ		
Decimal point	Frequency/Industrial Frequency: 00.00~0000 (Float decimal point), Revolution: No decimal point.		
Responsing speed	About 0.5S		
Max.Display	9999		
Operating humidity	≤85% RH		
Operating temperature	0~50°C		
Power supply	AC 220V or AC/DC 100~240V , 50/60Hz		
Dimension	$36\text{mm}(H) \times 72\text{mm}(W) \times 70.5\text{mm}(L)$; $48\text{mm}(H) \times 48\text{mm}(W) \times 100\text{mm}(L)$; $48\text{mm}(H) \times 96\text{mm}(W) \times 110\text{mm}(L)$;		
Weight	350g		
Insulation strength	AC 2000V 1min		
Insulation impedance	DC 500V ≥100MΩ		

4. Panel Indication

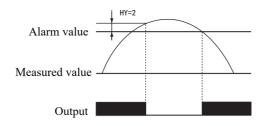


KKFG-A01E-A/0-20190330-1
KKFG-A01E-A/0-20190330-2

5.Output logic chart

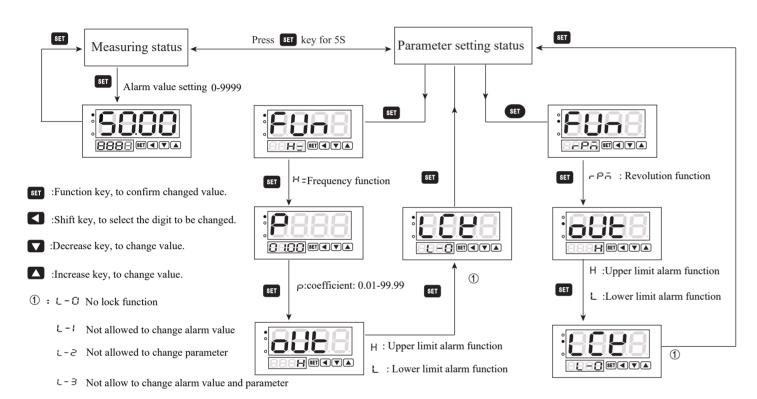


H (Upper limit alarm)



L (Lower limit alarm)

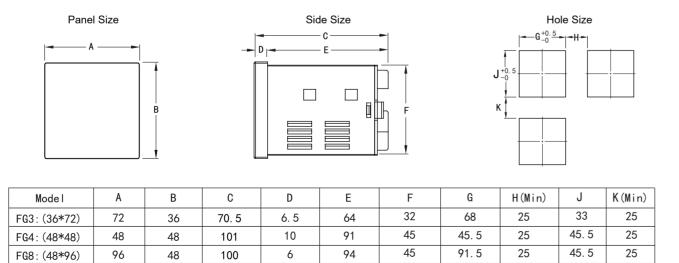
6. Operation Sequence



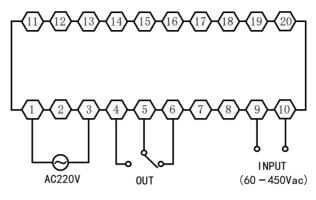
7. Dimension

Note

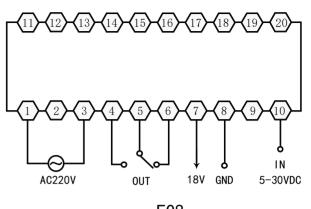
Unit:(mm) Error+0.5%



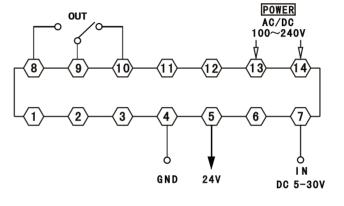
8. Connecting Drawing



FG8-H

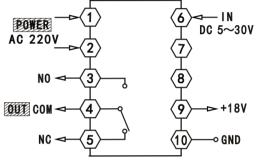


FG8



FG3

011



FG4

KKFG-A01E-A/0-20190330-3 KKFG-A01E-A/0-20190330-3