Multi-Function Vibration Meters
Portable Type Precision

COVER'S

VM-6000S

Contents

1.Warning

Battery:

Please make sure battery in normal work condition, If it is not in the operating voltage range, the instrument itself will exude the warning sound, Please insert the power source supply charge.

Power Adaptor:

Please make sure of the supply voltage mach with adaptor.

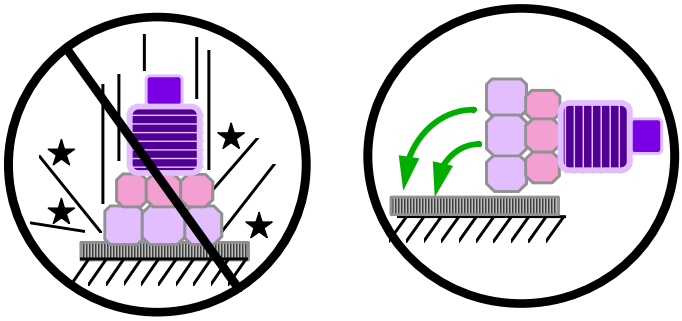
(AC110-220V DC-12V).

Photo Sensor:

Do not touch or move photo sensor when measuring.

The rpm of wheels must be stable when measuring.

Sensor is precision instrument,avoid collision or fall on the ground.



Incorrect Correct

2.Specifications & Functions

Function	Specification
Vibration Unit	G , mm/sec , μm , in/sec , mil
Vibration Range (100mV/G)	Acceleration：19.99 G (rms)
	Velocity：199.9 mm/sec，7.87 in/sec (0-P)
	Displacement：1999.9μm，78.74 mil (P-P)
Vibration Resolution	Acceleration：0.01 G (rms)
	Velocity：0.1 mm/sec , 0.004 in/sec (0-P)
	Displacement：0.1μm , 0.004 mil (P-P)
Frequency Range	HPF：3Hz，10Hz
	LPF：1KHz，10KHz
Measurement Mode	Continuous measurement / QC mode
A/D Resolutions	24bits
Environments	0℃~40℃
Screen	LCD 128×64，LED back lights
Power	VAC110V/220V，DC-12V
Batteries	Re-charged；max 4hr. for continuous
Instrument Size	210×110×40 mm
Instrument weight	400g
Total weight	0.6kg (including accessories)

3.Optional Accessories

VM-6000S Instrument×1

Vibration sensor×1

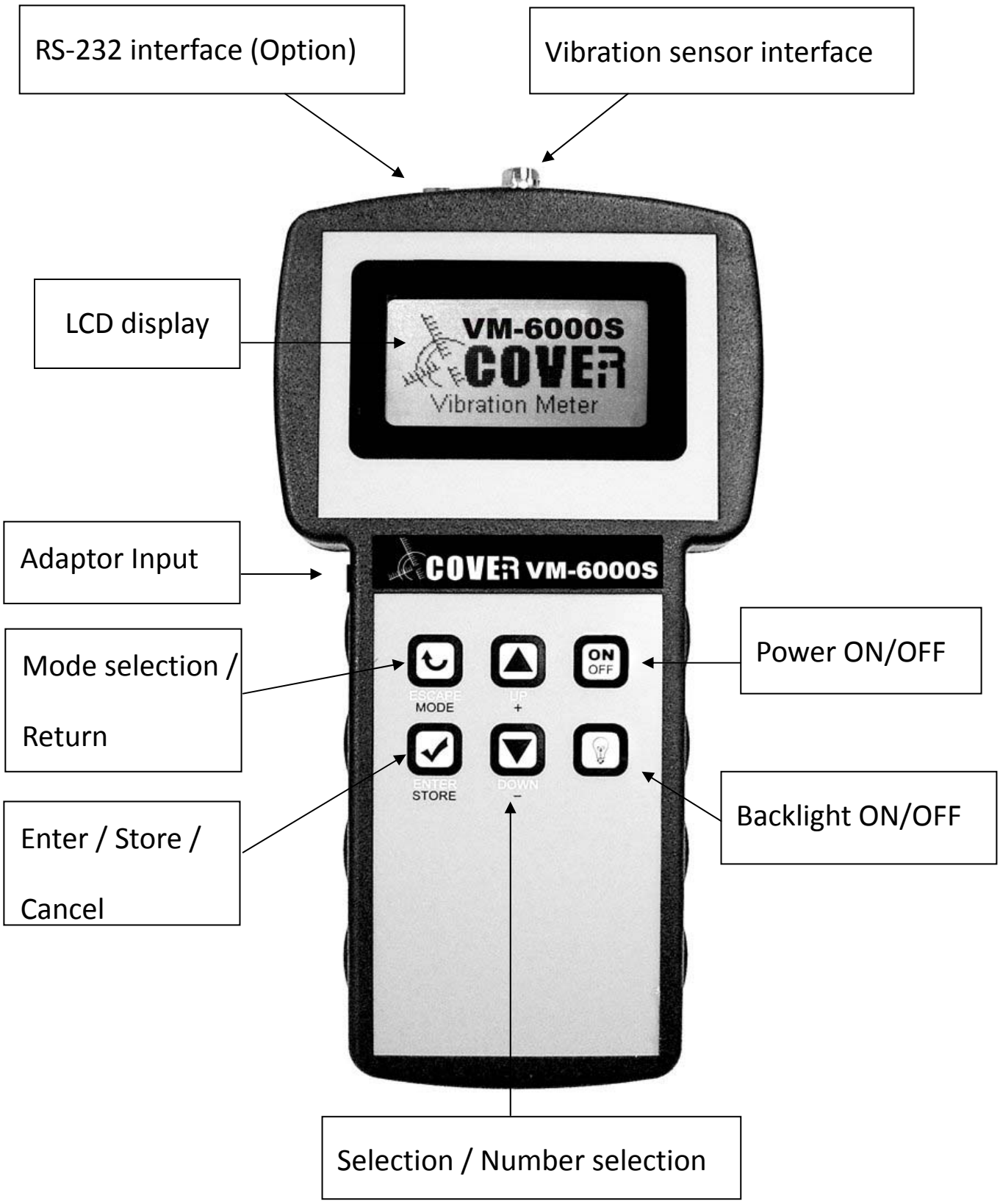
(including MB504 Magnetic Base**/**Cable **)**

Power Adaptor×1

Aluminum probe×1

※Data transfer software/cable(Option)

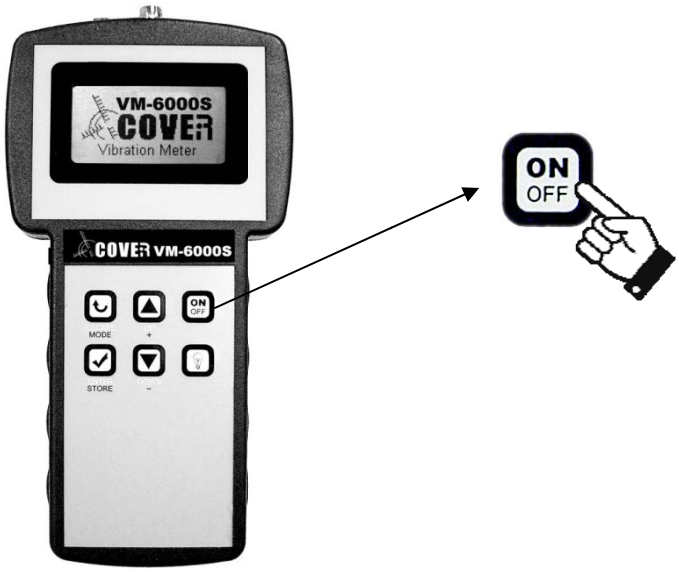
4.VM-6000S Function Description



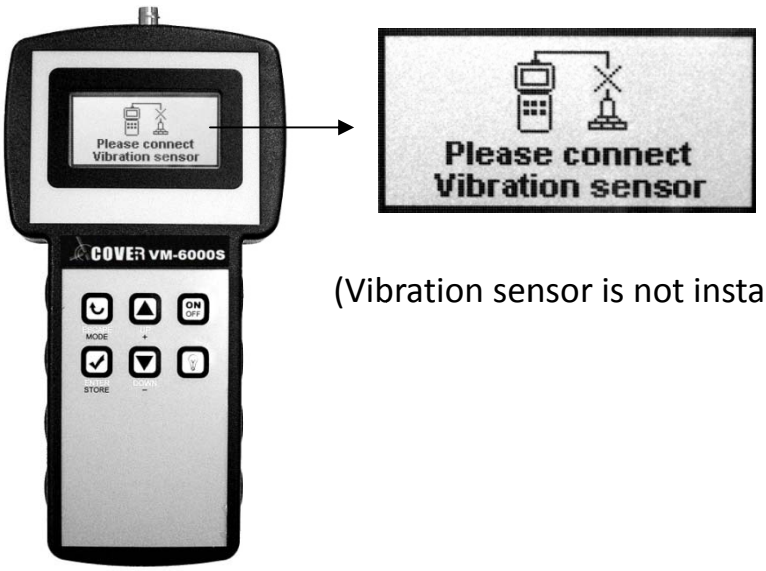
5.Operating Description

5.1 Vibration Mode (QC conversion vibration P.21)

1.1 Press ON OFF Key to enter the boot screen (Press ON OFF key about two seconds that is the closure of the power)：



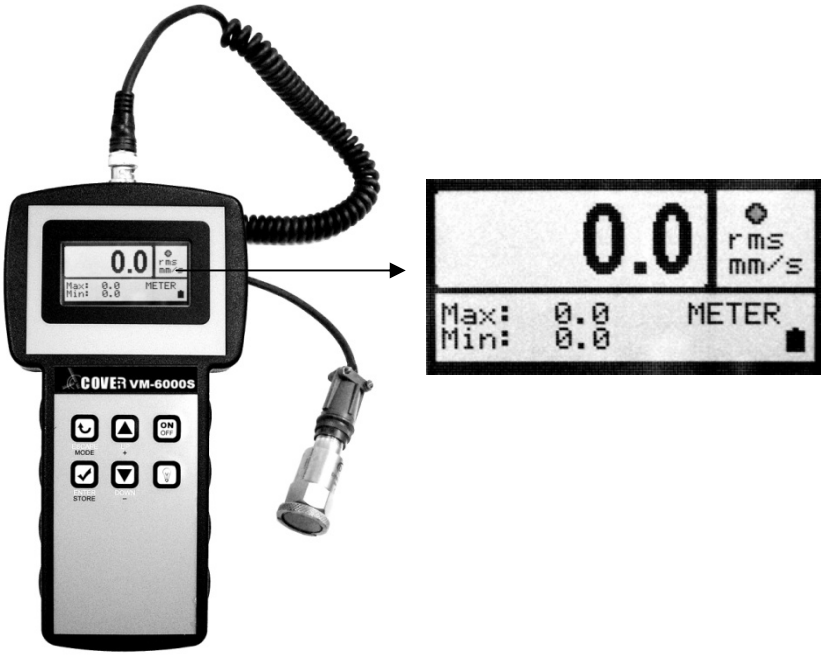
1.2 Main screen：



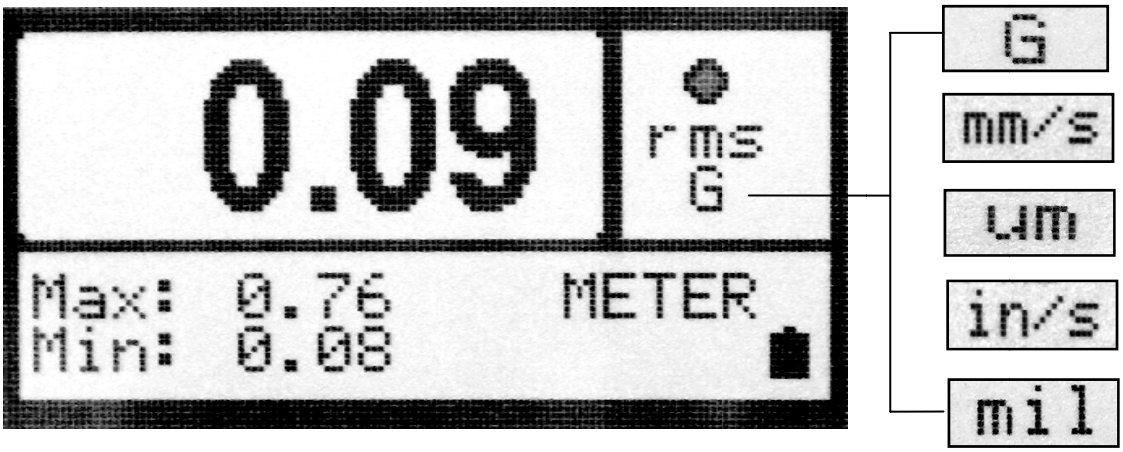
(Vibration sensor is not installed)

1.3 Vibration sensor installed in the host：

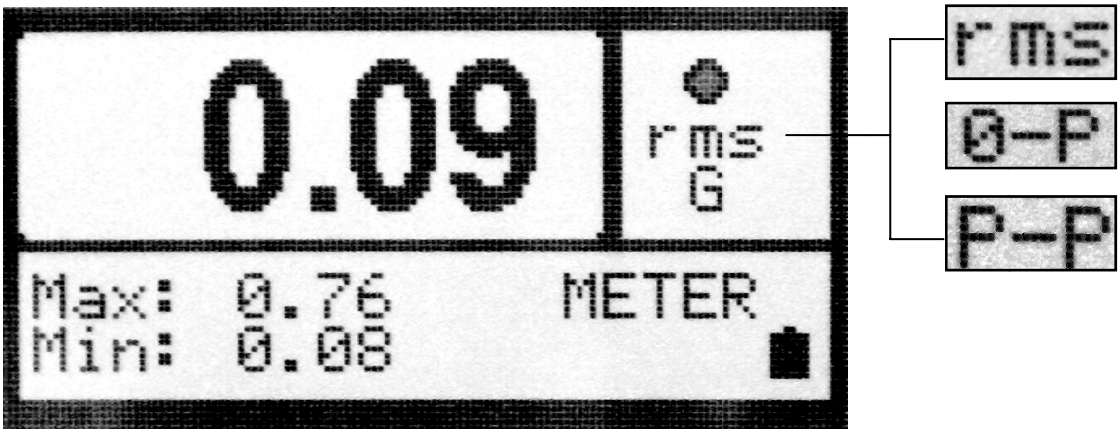
1.4 Install the sensor immediately transform the measurement screen：



1.5 Press this button rapid replacement of five kinds of vibration unit：

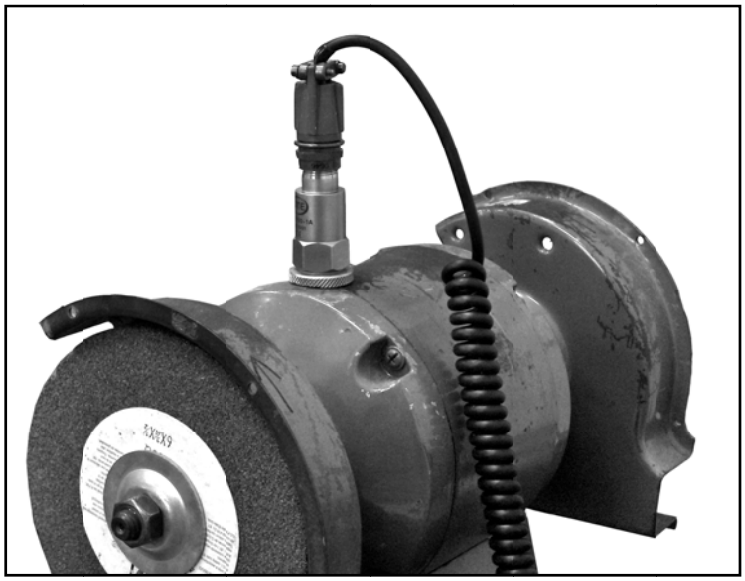


1.6 Press this button rapid replacement of three kinds of amplitude calculated values

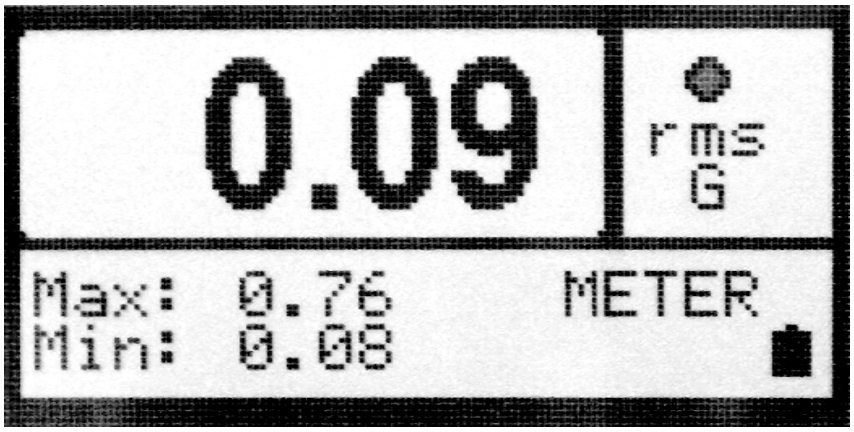


Vibration meter mode it can quickly replace the units and the amplitude of vibration of the calculated value.

1.7 After the achieve of setting, the sensor near spindle in the analytes start measured：



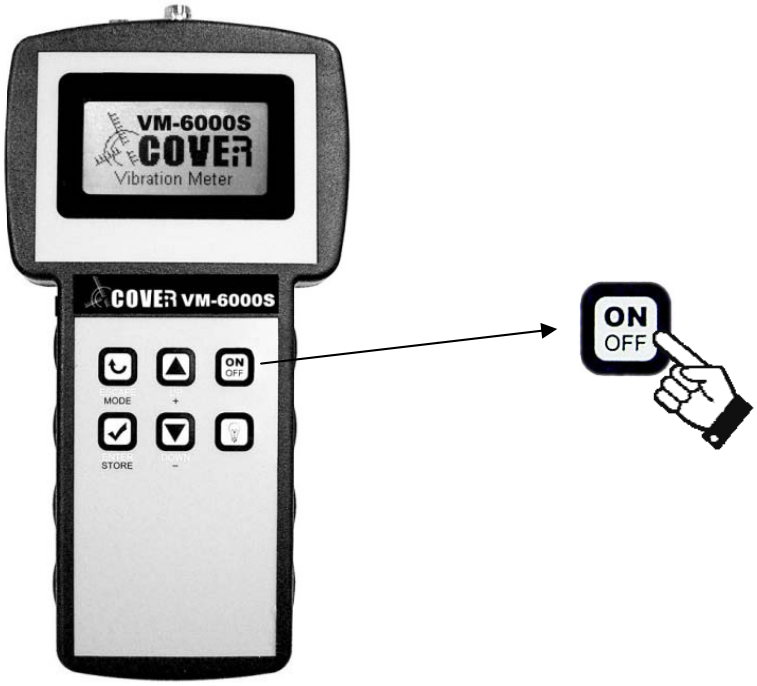
1.8 Press this ☑ button MAX and MIN to zero, and starts analytes begins to measure,when vibration value stable, read and record the measured values of vibration：



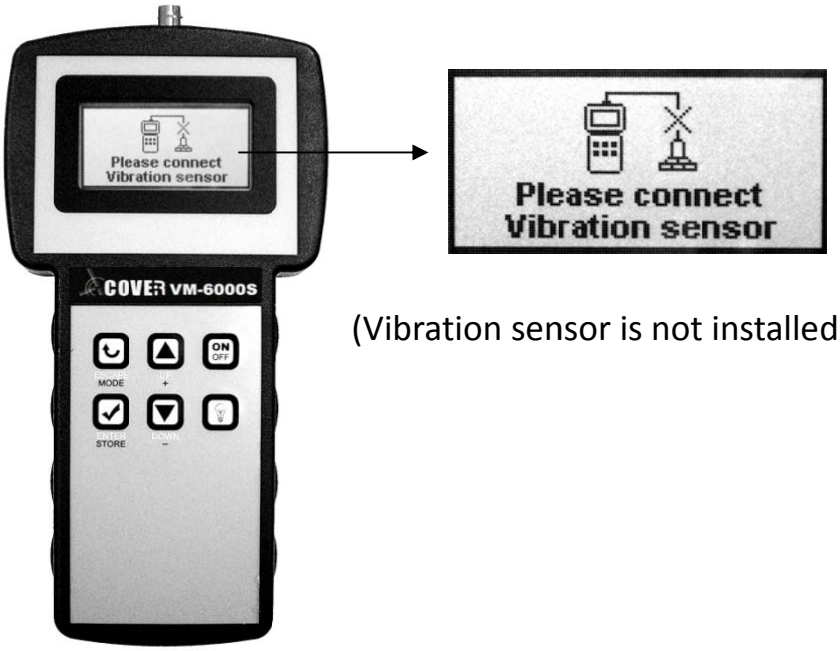
＊Vibration meter mode Press this ☑ button can be MAX and MIN to zero.

5.2 QC operating (Vibration conversion QC P.22)

2.1 Press ON OFF Key to enter the boot screen (Press ON OFF key about two seconds that is the closure of the power)



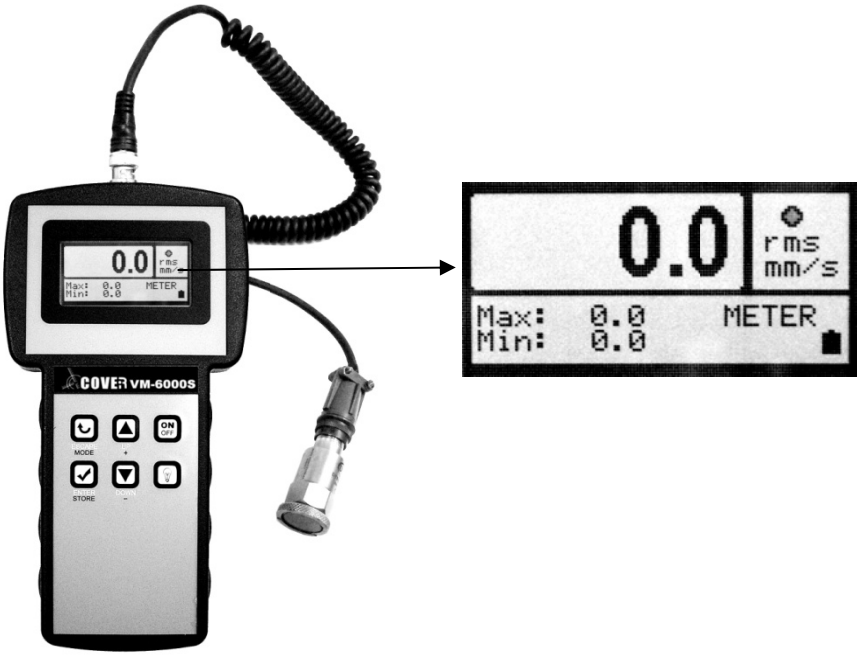
2.2 Main screen



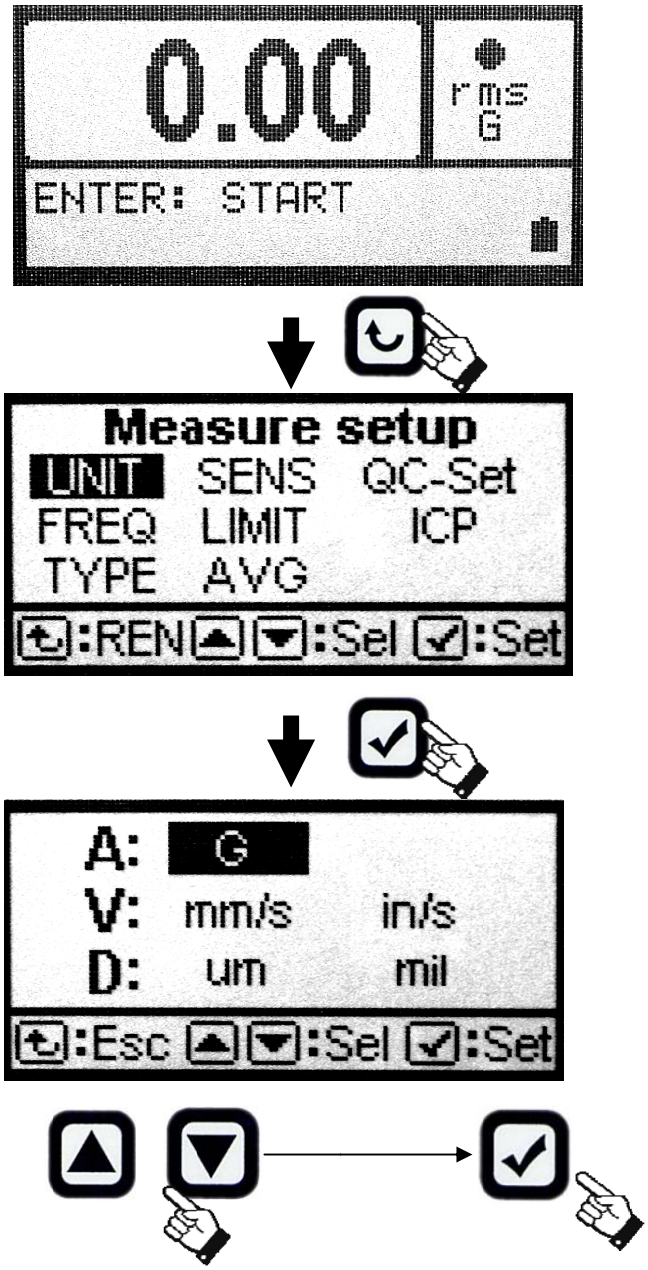
(Vibration sensor is not installed)

2.3 Vibration sensor installed in the host：

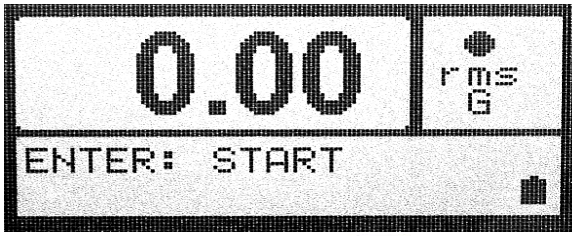
2.4 Install the sensor Immediately transform the measurement screen：

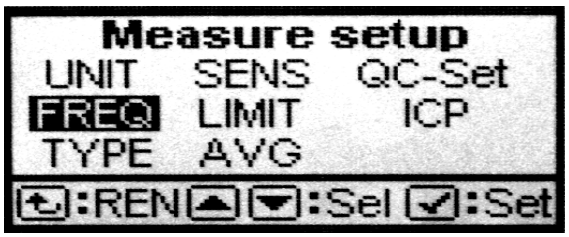


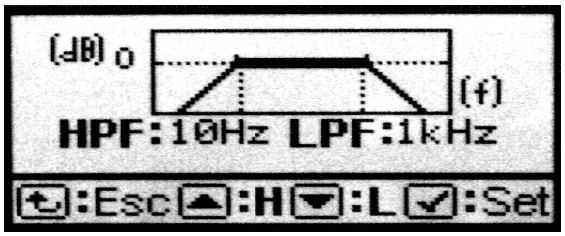
2.5 Vibration unit Setting: Press this button enter the measurement options,use select UNIT ,Press this button enter to set screen, use select desired vibration unit,then Press this button complete the setup.

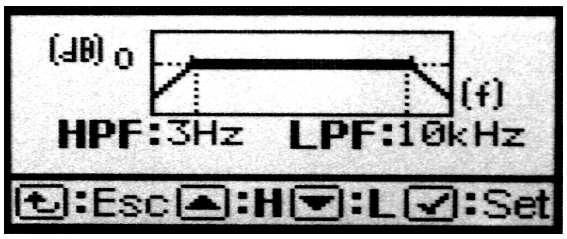


2.6 Filter bandwidth setting: Press this button enter the measurement options ,use select FERQ,Press this button enter set screen,use setting for HPF,use setting LPF then Press this button complete the setup.

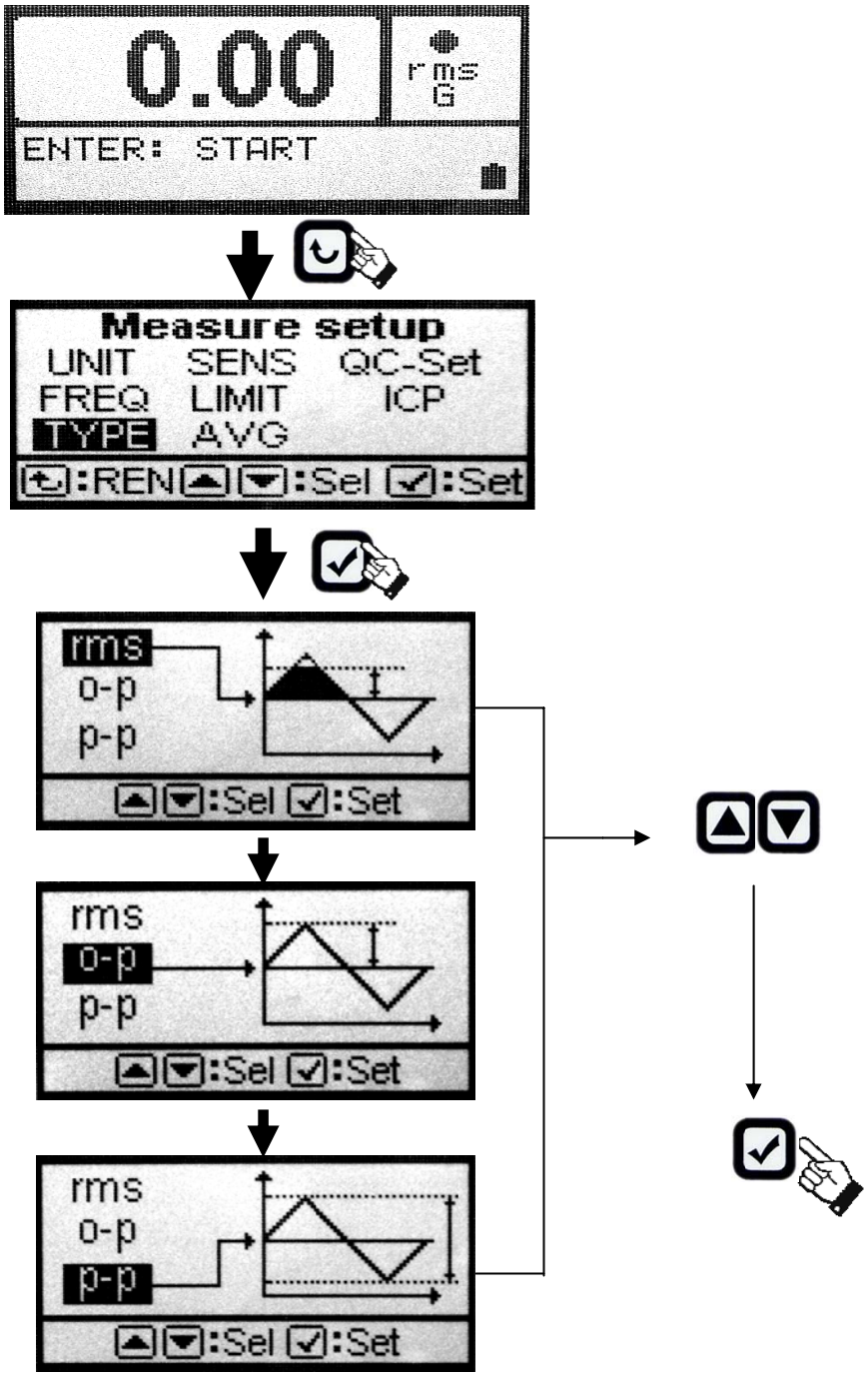




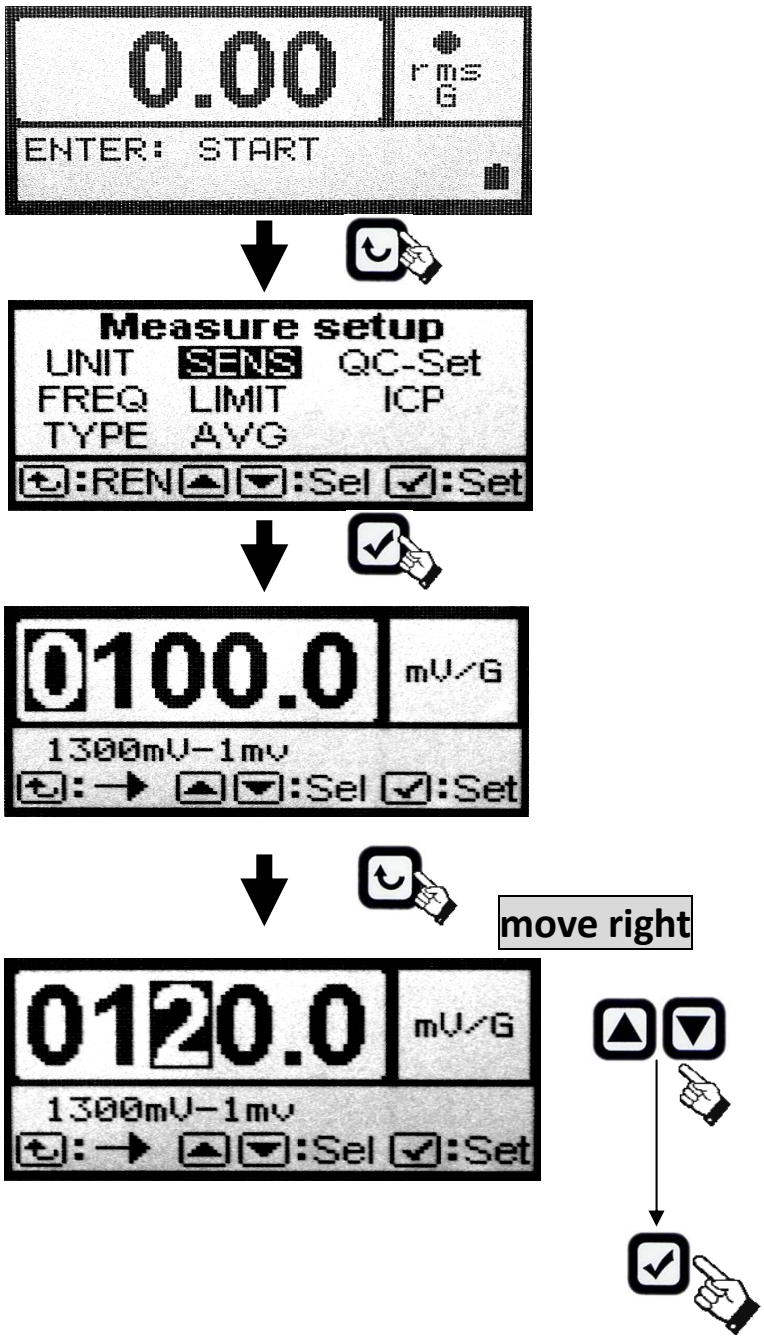




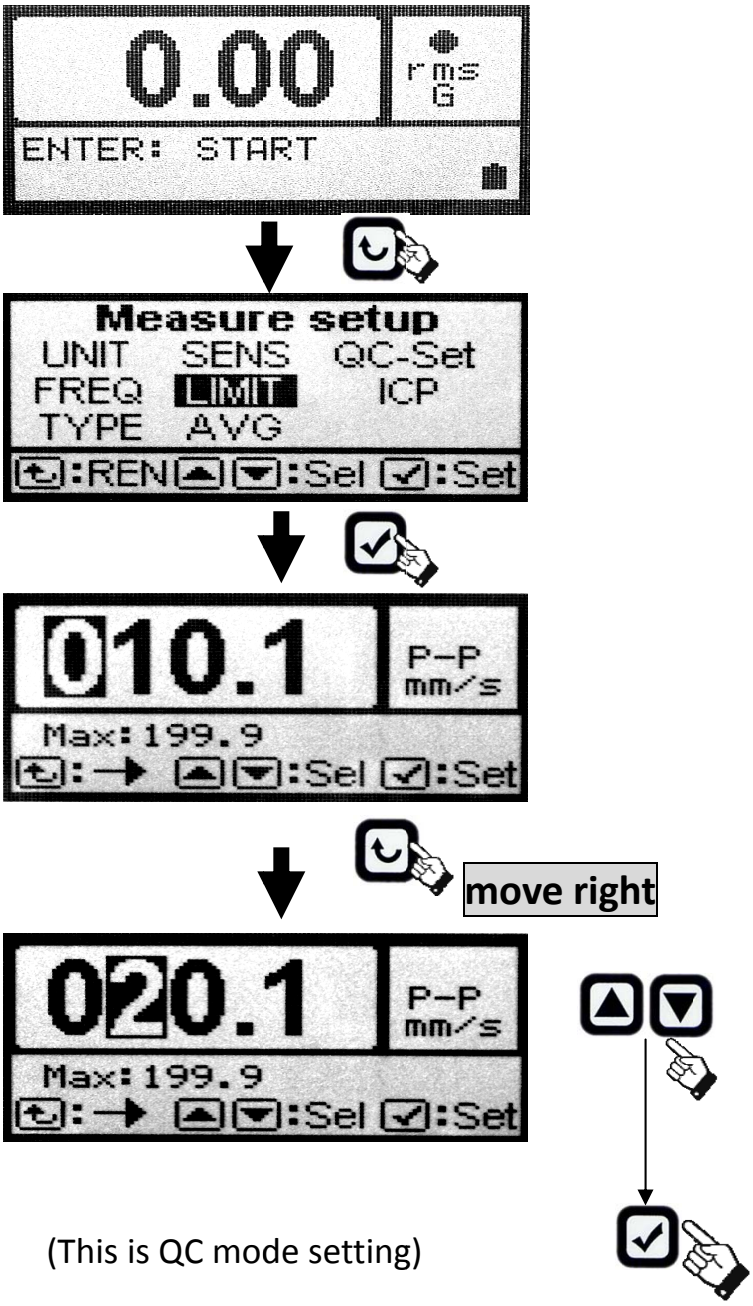
2.7 Amplitude calculated values setting: Press this button enter the measurement options, use select TYPE ,Press this button enter set screen, use setting for amplitude calculated values, then Press this button complete the setup.



2.8 Sensor sensitivity setting: Press this button enter the measurement options, use select SENS ,Press this button enter set screen,use move right, use set for sensor sensitivity, then Press this button complete the setup.



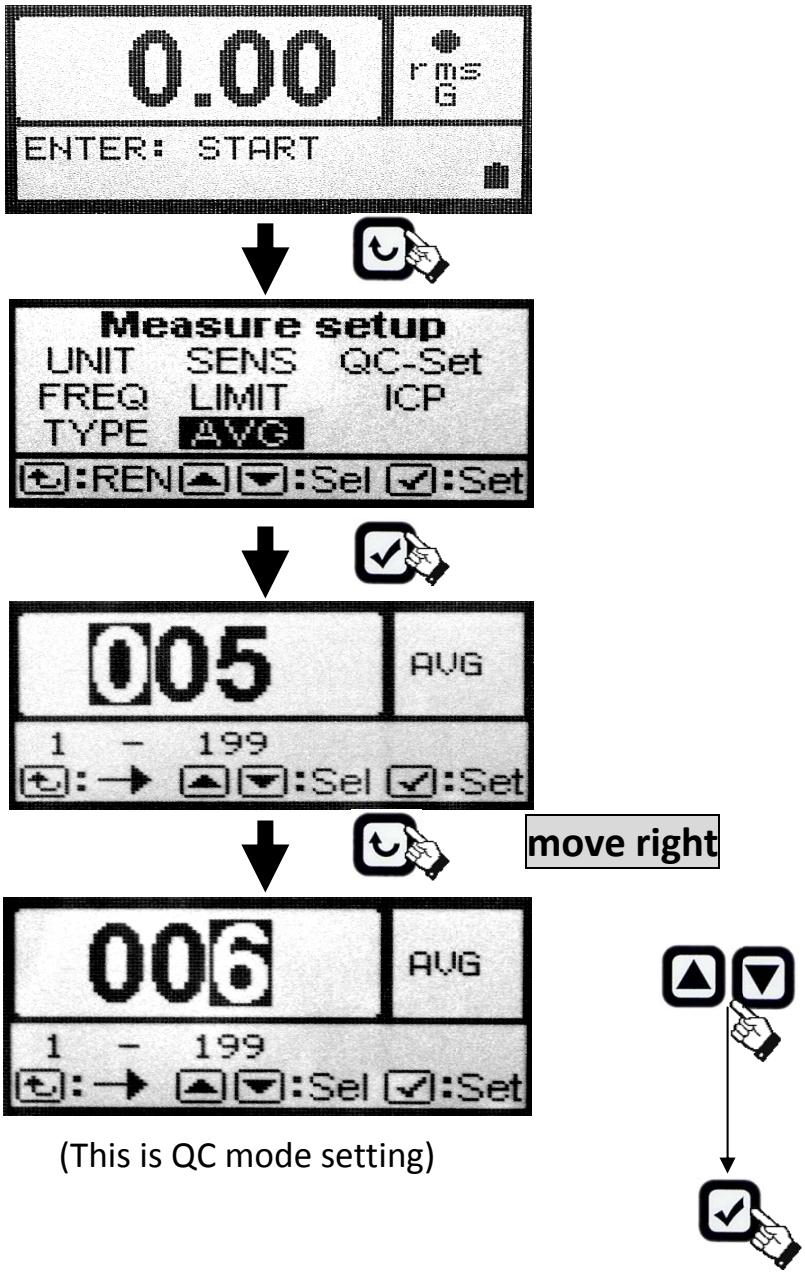
2.9 Vibration QC upper alarm limit:Press this button enter the measurement options,use select LIMIT,Press this button enter set screen, use move right, use set for upper alarm limit, Press this button complete the setup.



(This is QC mode setting)

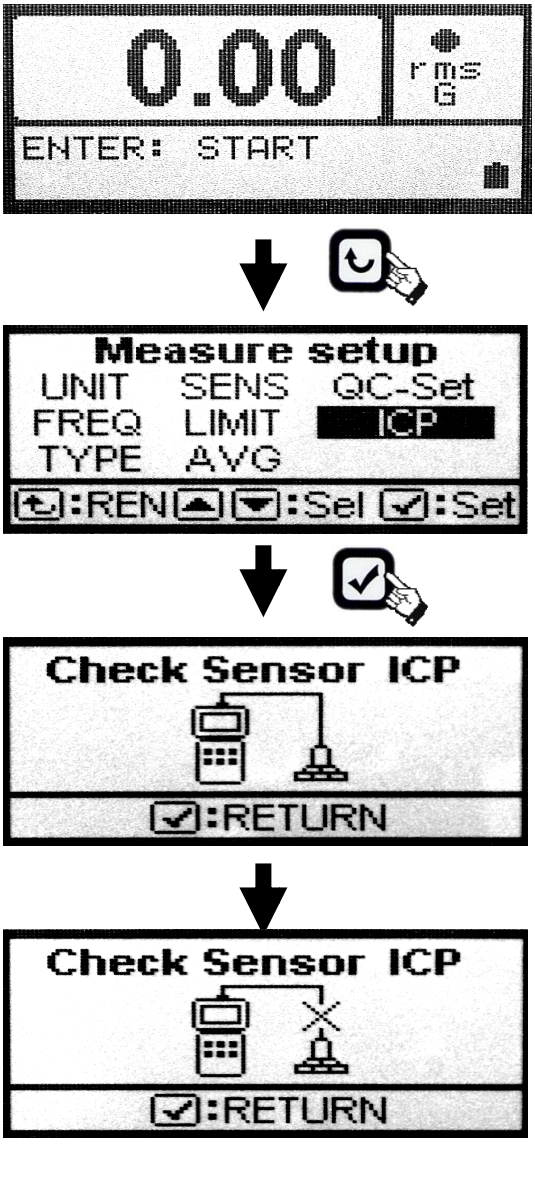
2.10 Vibration measurement average number of times setting:

Press this button enter the measurement options,use select AVG,Press this button enter set screen, use move right, use set for vibration measurement average number of times, Press this button complete the setup.



(This is QC mode setting)

2.11 Accelerometer ICP: Press this button enter the measurement options,use select ICP,Press this button enter set screen, accelerometer test whether it is normal.

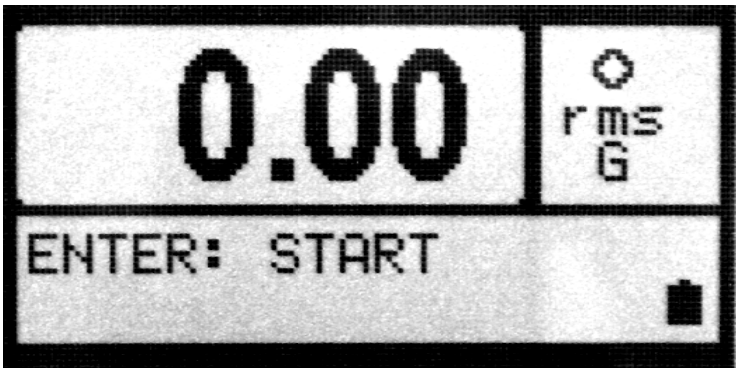


2.12 QC measurement mode: All functions complete setting,

Press this button to QC measurement start screen,

Confirmation the sensor near spindle in the analytes, Press this button start Measurement.

(Confirmation the sensor near spindle in the analytes)



(Press this button start Measurement)

2.13 QC measurement mode result: Measurement values and QC vibration values compares,if＞QC vibration values show Fail not passed,if＜QC vibration values is passably.

If＞QC vibration values

Fail

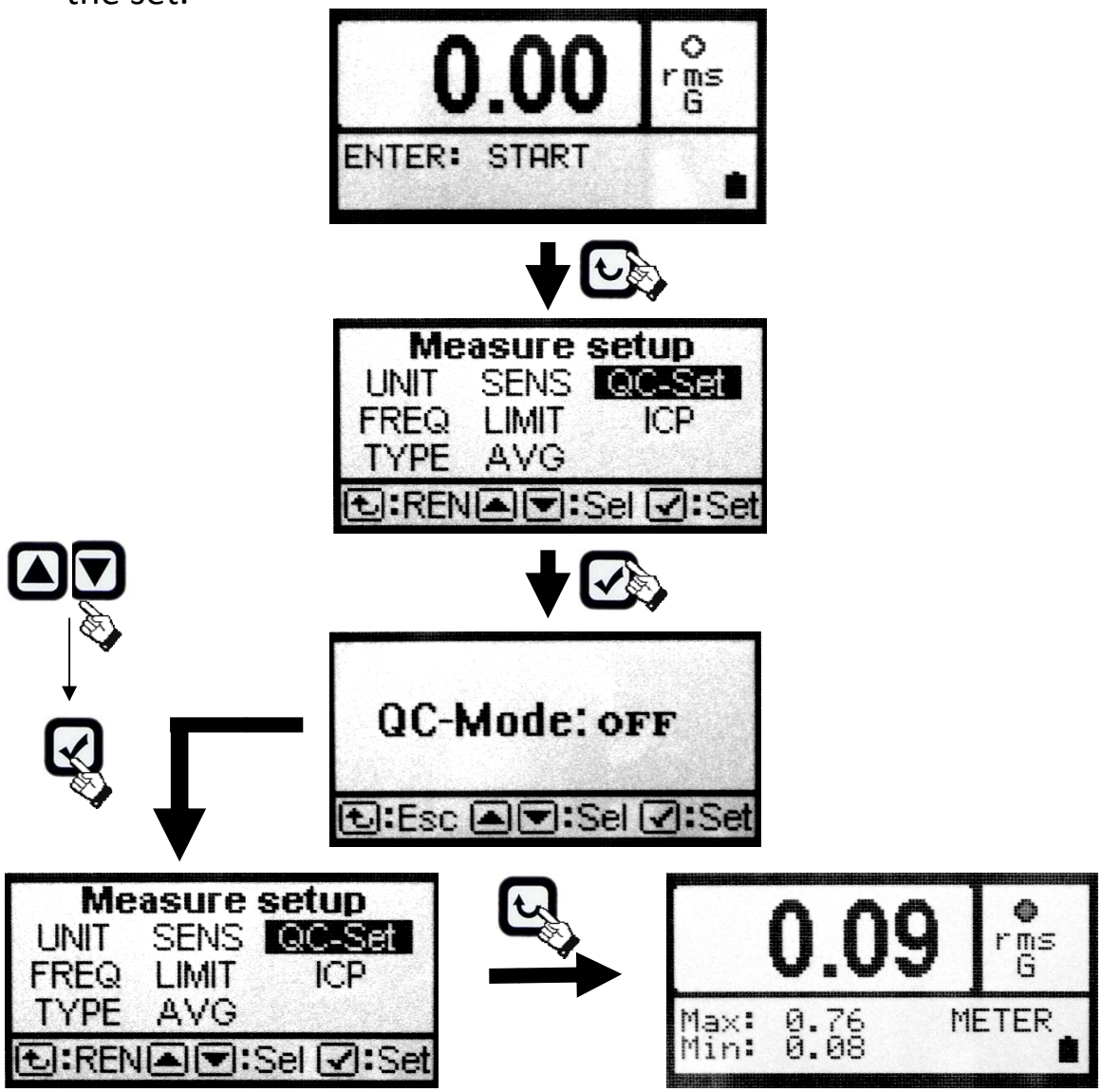
If＜QC vibration values

Pass

6.Measurement mode conversion process

6.1 QC conversion vibration:

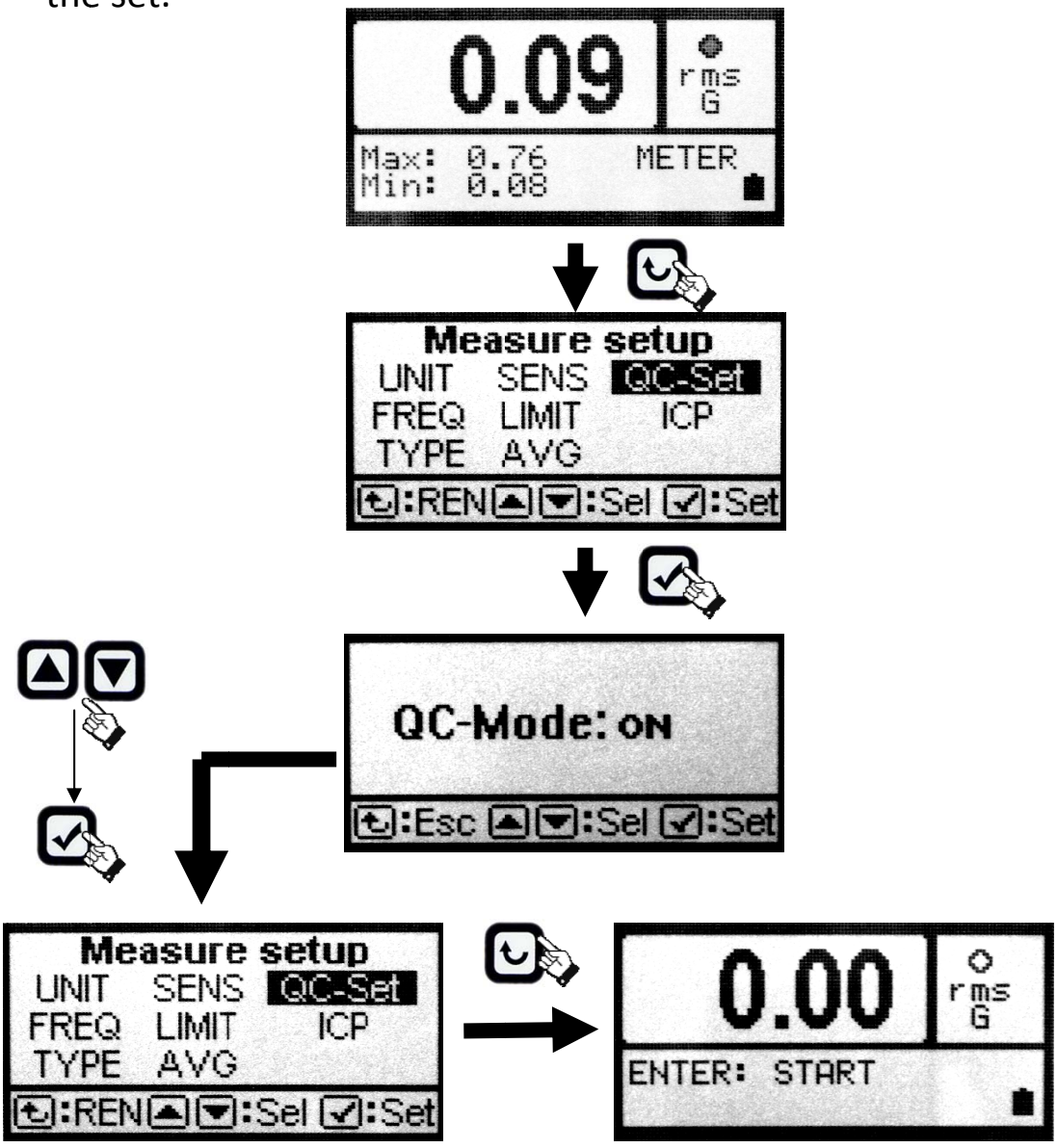
Enter the measurement screen,press this button enter the measurement options,use select QC-Set,Press this button enter system, use set for QC-Mode show of “OFF”,Press this button hear the "beep beep" to complete the set.



(Vibration mode operation P.6)

6-2 Vibration conversion QC:

Enter the measurement screen,press this button enter the measurement options,use select QC-Set,Press this button enter system, use set for QC-Mode show of “ON”,Press this button hear the "beep beep" to complete the set.



(QC operating P.10)

7.Troubleshooting

1. After boot, if the LCD display without any information, please use the random parts transformer, let machines into state of charge, (can also be used while charging side).

2. Battery power is low LCD display will appear in the lower right corner of drawings. The host will have been issued a "beep -" sound a warning power is too low, at this point can be plugged directly into the power supply to continue to use.

3. Start charging, if the charging symbol does not have any charging display, check whether the transformer used in +12 VDC output connector is the normal contact.

4. After boot, if the vibration meter mode, the LCD displays measured values remain at 0 change, please check the accelerometer is installed correctly.

5. The instrument calibration cycle is recommended once a year, if the measured value is unreasonable, he can contact the original manufacturer or distributor calibration, or repair work.

※ If the subject of intense regulatory speed collisions or in the heat environment, anything is possible than to wait too long to speed up the regulatory characteristics of temporary or permanent change, in which case the whole group of equipment shall be immediately returned to original factory calibration.

8.Product Certificate

CoversPlus International

Product Certificate

Product Name			
Address			
TEL		FAX	
Model	VM-6000S	Instrument NO.	
Vibration Sensors		Sensors NO.	
Date of purchase		Warranty period	

1. The certificate becomes effective with the purchase date and seal by agency.

2. The certificate offer 1 year's guarantee for the quality of instrument, if it is damaged under normal usage as well as no man-made issue.

3. Out of guarantee period, vendor can ask for repair cost when the man-made or weather reason.

4. If the certificate is missing or not intact, it will not reissue.

5. No seal no effective.

6. Please enclose this certificate when instrument send back for repairing.

Taiwan Factory:

Add:9F, No.32-1, Lane 450, Sec. 5, Cheng-Gong Rd., Nei-Hu Area, Taipei, Taiwan.

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