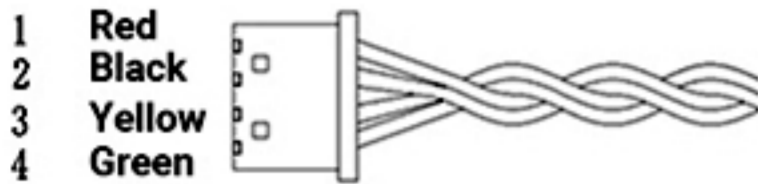


INSTALLATION INSTRUCTION

L06-Liquefied gas liquid level installation instruction

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1.Pin out



Pin No.	Color	Lead name	Description	Remark
1	Red	VCC	Power input leads	
2	Black	GND	Power ground lead	
3	Yellow	RX	Function lead	(1)
4	Green	TX	Function lead	(1)

Remarks: The module interface protocol has different models, please check the selection manual with the actual purchased model.

2.Module interface connection

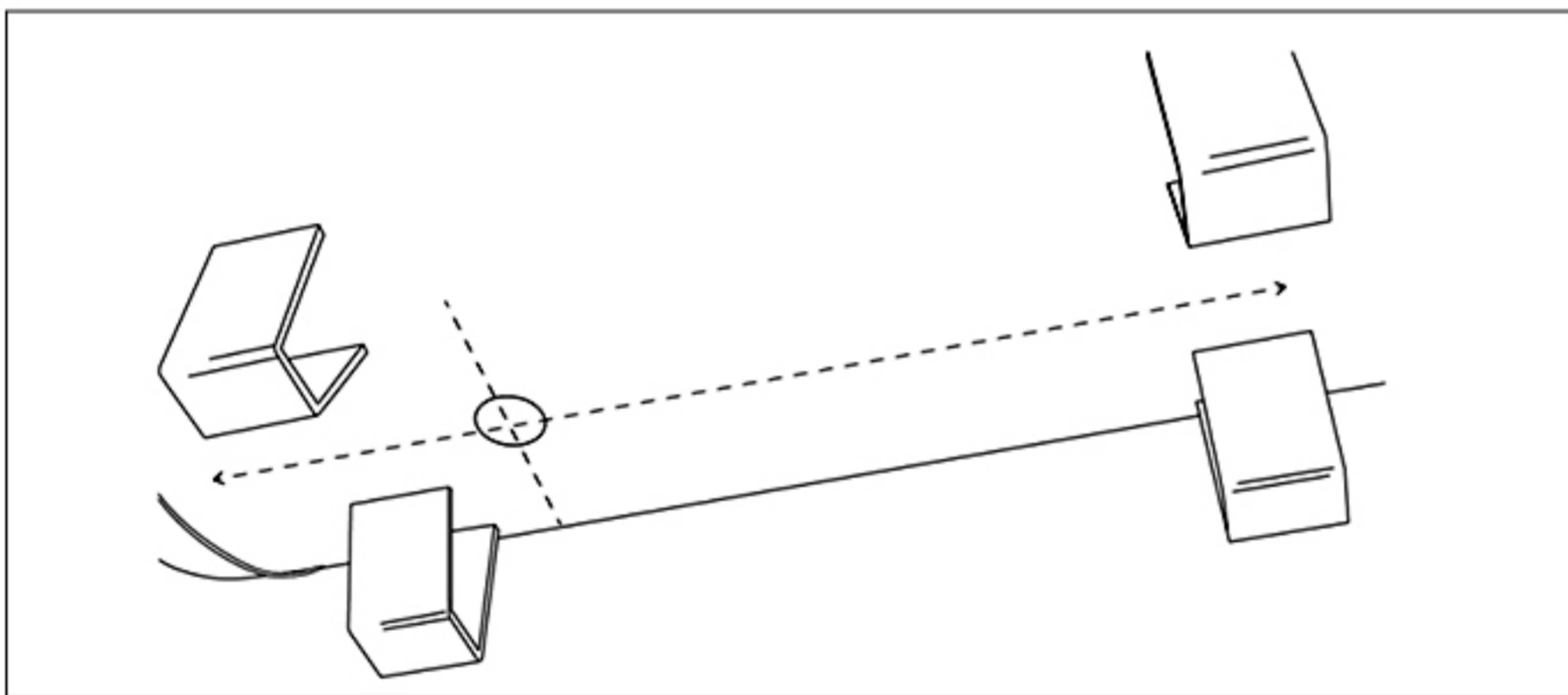
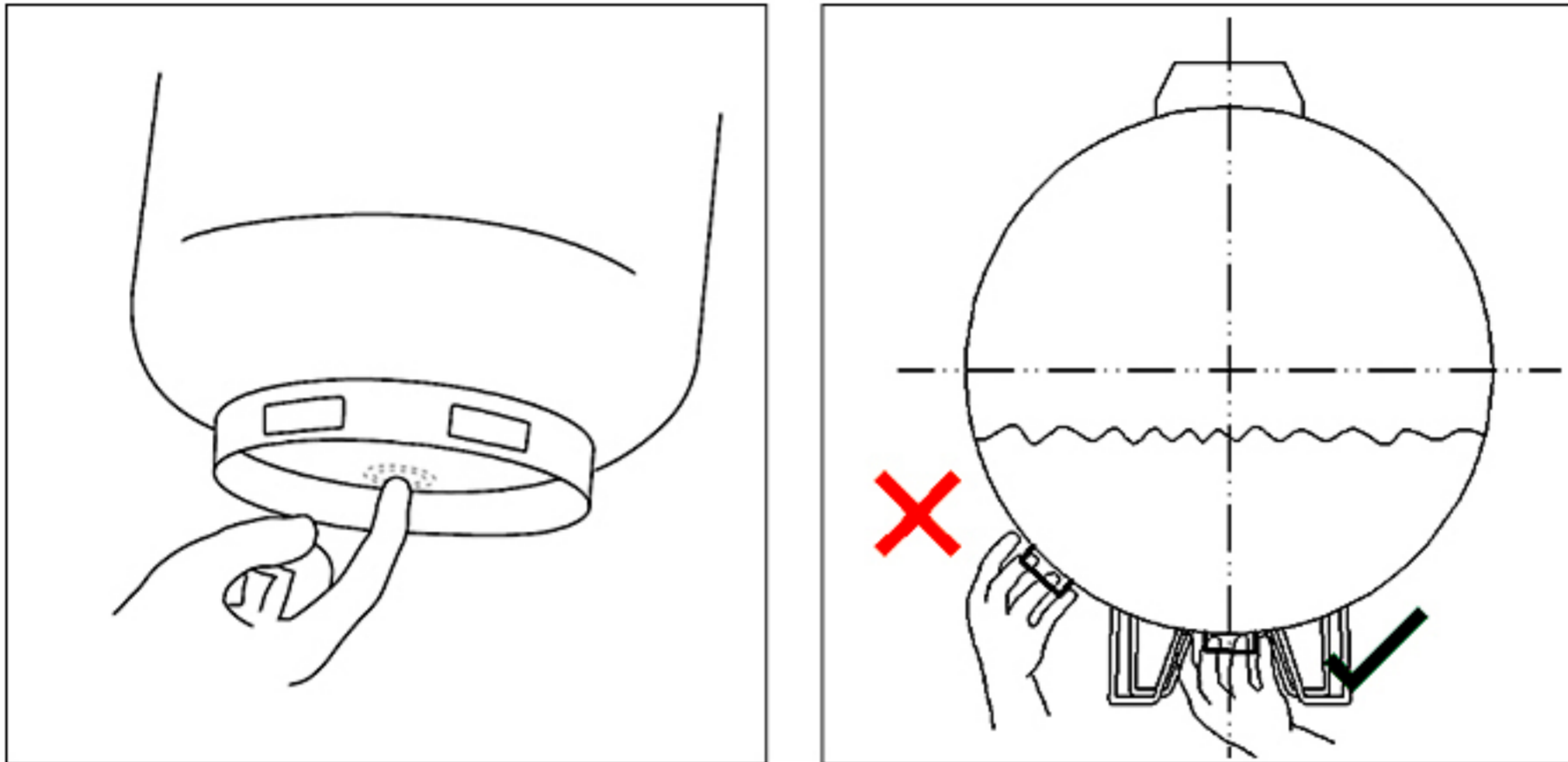
- Module working voltage 3.3V~5V, use 1.25*4pin connector
- Factory default baud rate 115200

3.Prepare the below things.

<p>Sensor module*1</p>	<p>Double-sided EVA glue*1</p>	<p>Couplant*1</p>	<p>AB glue*1</p>

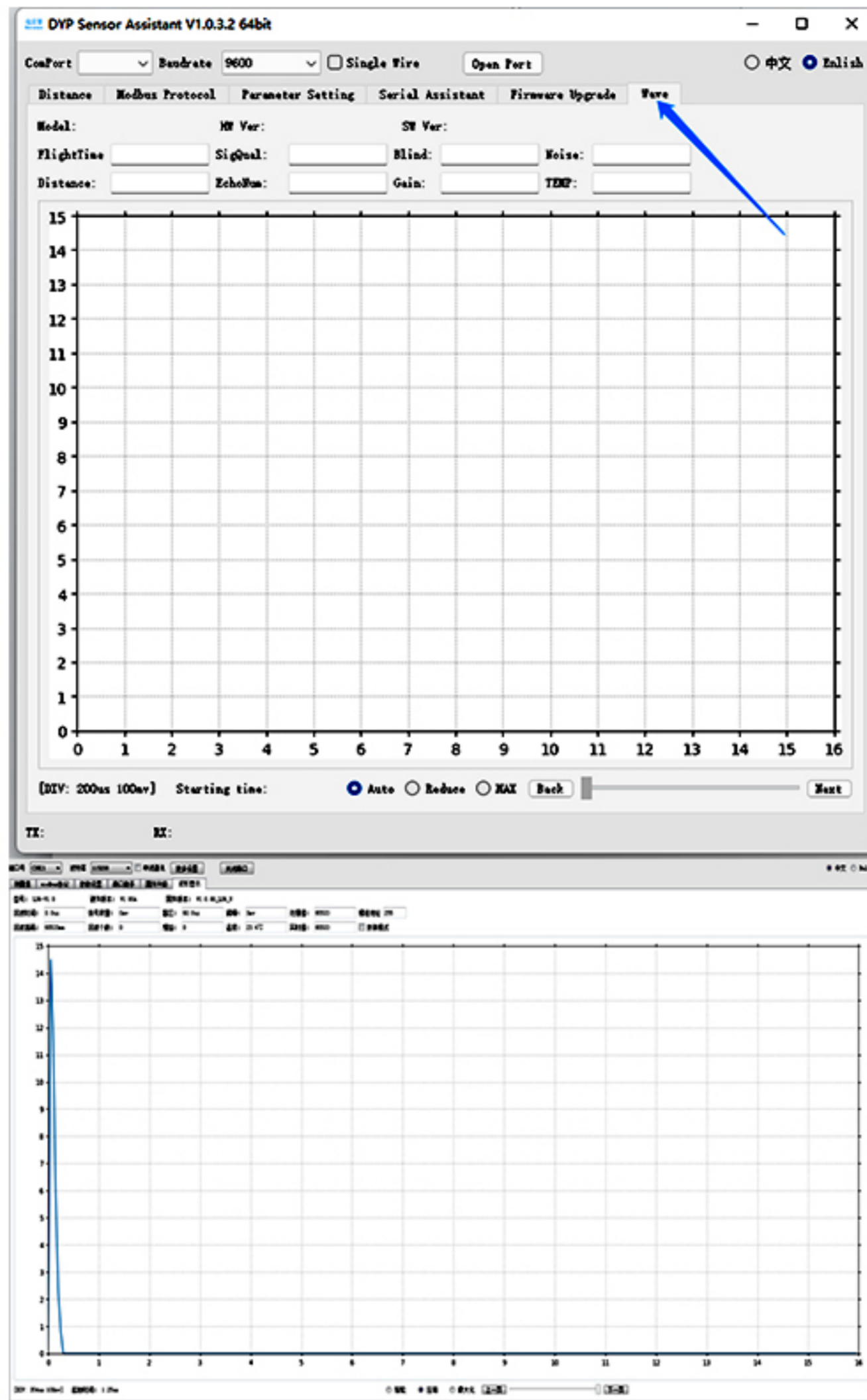
4. Position requirements for containers to be installed

The sensor module is installed at the vertical center point of the bottom of the container

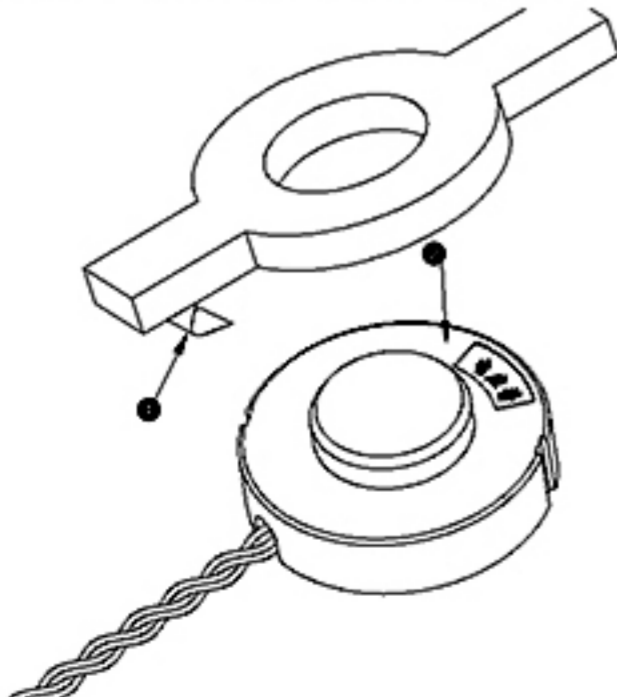


5. Installation steps

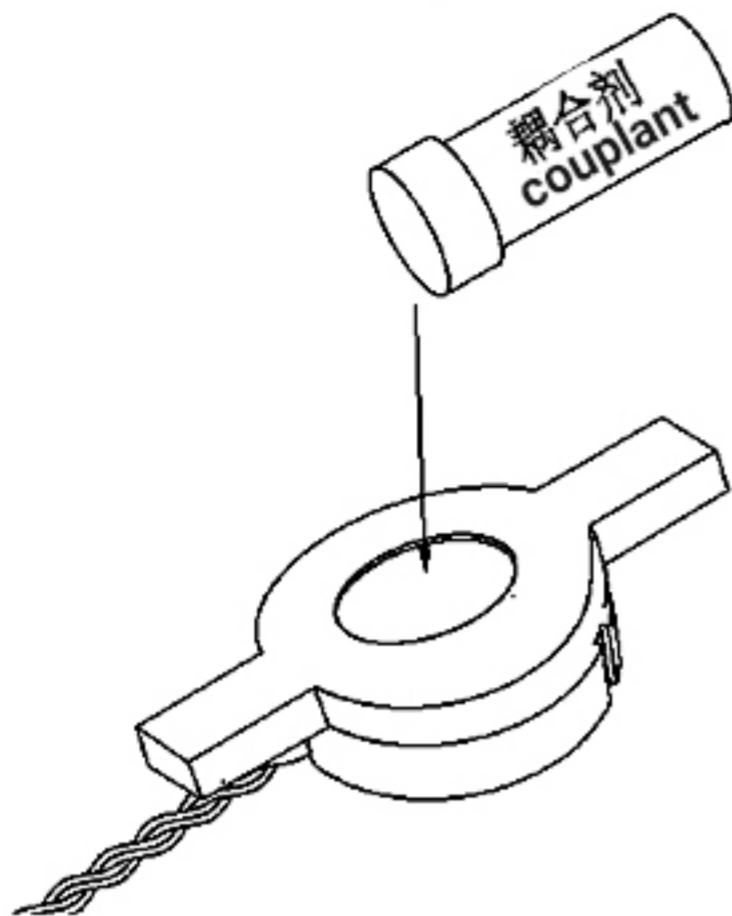
5.1 Clean and wipe the surface of the position to be installed, such as dirt, and rust...; the liquid level must be kept above 10cm. Connect the module using a TTL to USB cable to the host computer, and confirm that the module is connected successfully and the waveform is displayed normally (as shown in the figure below, the connection is normal, and the probe is suspended to be tested)



5.2 Tear off the release paper on the bottom layer of the double-sided EVA adhesive, and paste it on the sensor module. Note that the top layer should not be torn off for now.

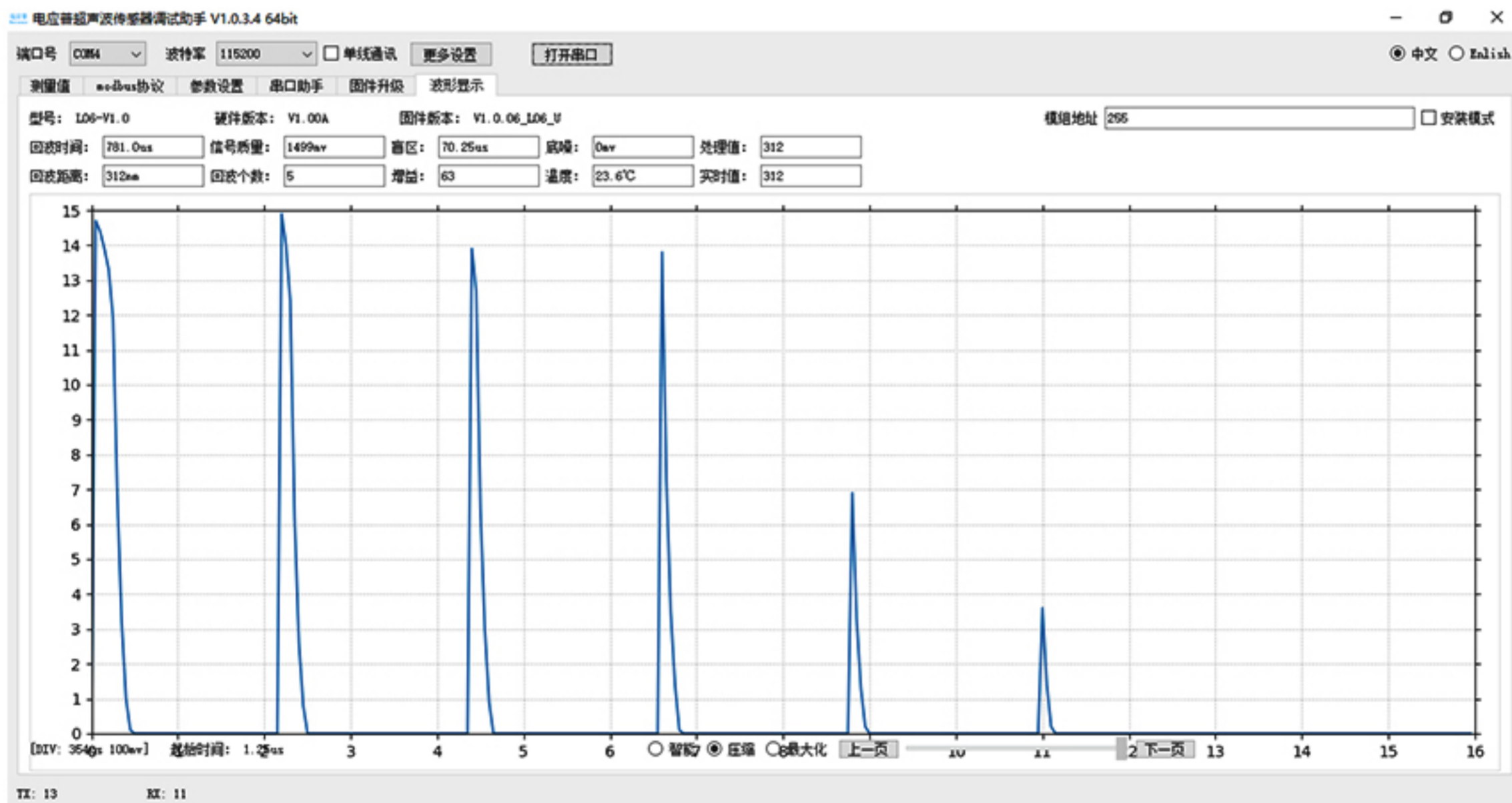


5.3 Apply the couplant to the center of the module, and it must be overflowing and higher than the surface of the EVA, and a little more will not affect it.



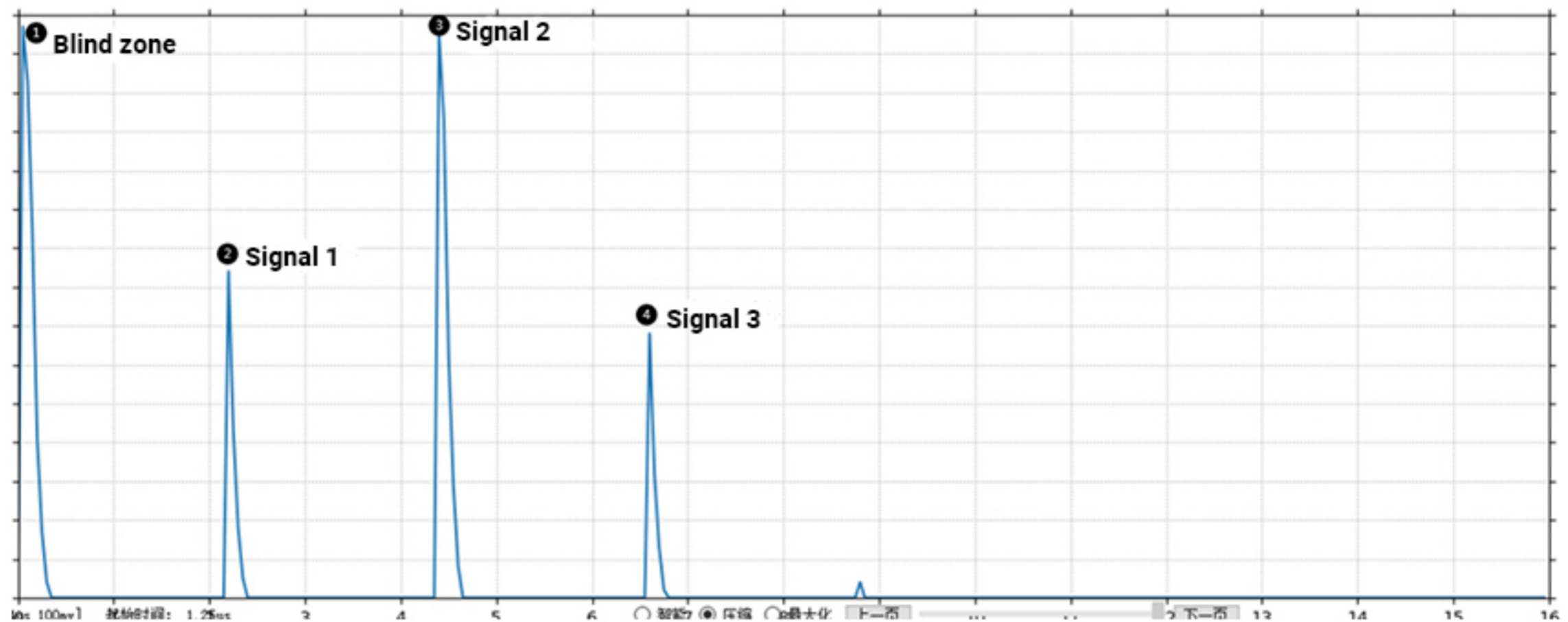
5.4 After the sensor module is coated with ultrasonic couplant, stick it to the center point of the cleaned container bottom, and the upper computer can display the current liquid level in the container, and the display information will be refreshed every 2 seconds. Please keep still for 10 seconds after placing the sensor module. Move to confirm the stability of the serial assay. (As shown in the figure below, find a point to install and display the detection position normally.)

The echo in the normal state is as shown in the figure, and the signal lines of each level are smooth and free of burrs.

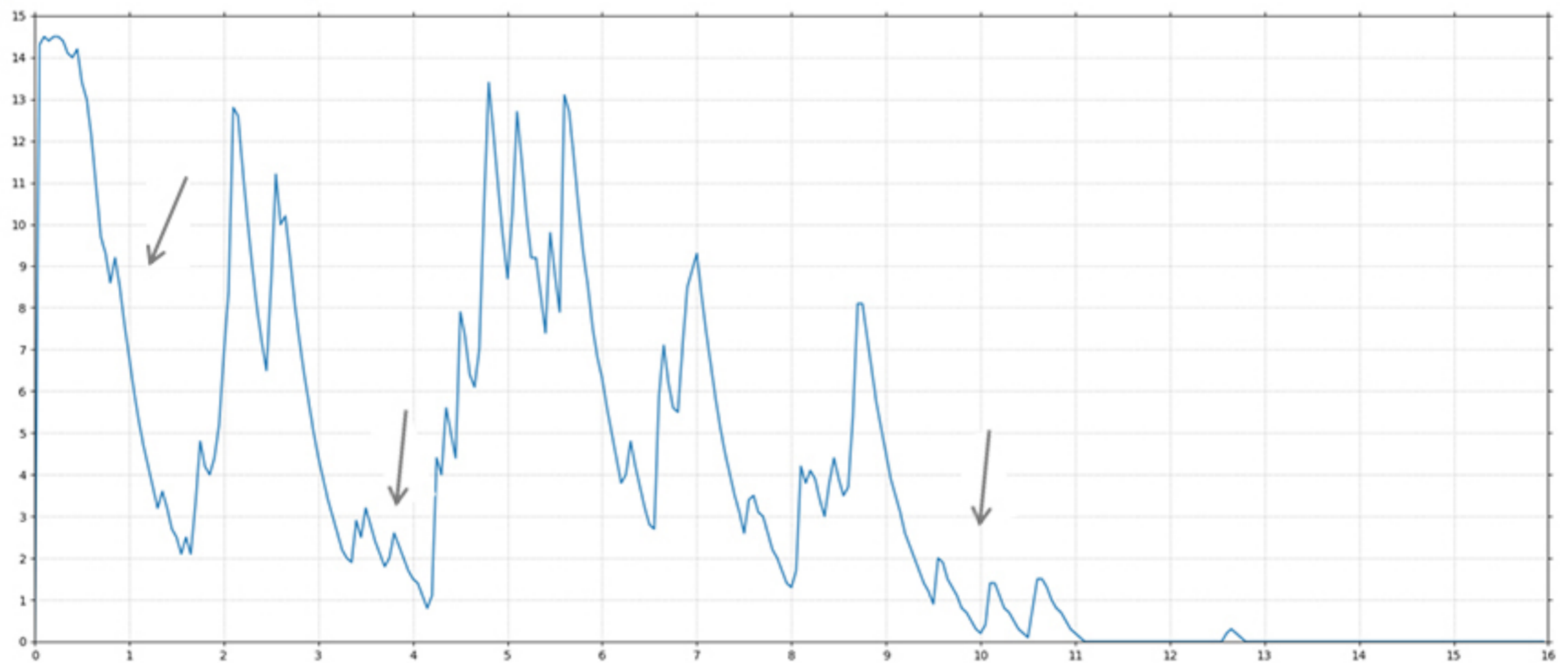


5.5 When the following situations appear in the displayed waveform, it is necessary to move and adjust the installation position (when it is necessary to move and adjust the installation position, it is necessary to ensure that the couplant is sufficient, and if the couplant is not enough, it can be properly supplemented.)

The normal state is that the signal 1 is the strongest, and then the 2-3-4... level echo gradually weakens. If the strong and weak changes alternately in the figure, it can be judged that the installation position is not vertical to the container and the center point of the container is skewed.



If the echo appears as shown in the figure, it may be the flatness, impurities, rust, etc. in the paint coverage; it indicates that the position of this test point is not suitable for installation, and a new position must be replaced.

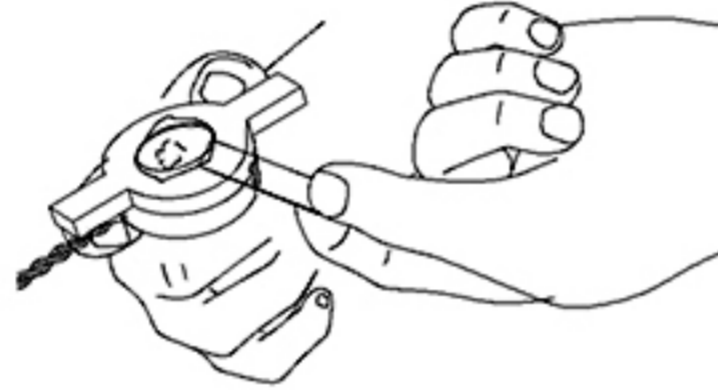


5.6 When it is confirmed that the blind zone value of the test position point is the smallest, and the number of echoes is the largest, and the signal lines of each level are smooth and free of burrs, it indicates that this position point meets the installation requirements. At this time, wipe the installation position clean (it must be clean, free from dirt and water, otherwise it will affect the fixing effect of the AB glue on the back and directly affect the service life). The surface of the sensor module also needs to be wiped clean, and no couplant remains.

5.7 Squeeze out the distributed AB glue in proportion to a flat plate with a certain hardness and stir evenly (≥ 30 seconds), and apply the evenly stirred AB glue to the center of the probe of the sensor module to be installed, and it must be completely covered without leaving Gap (exploring around the heart).



Stir AB glue

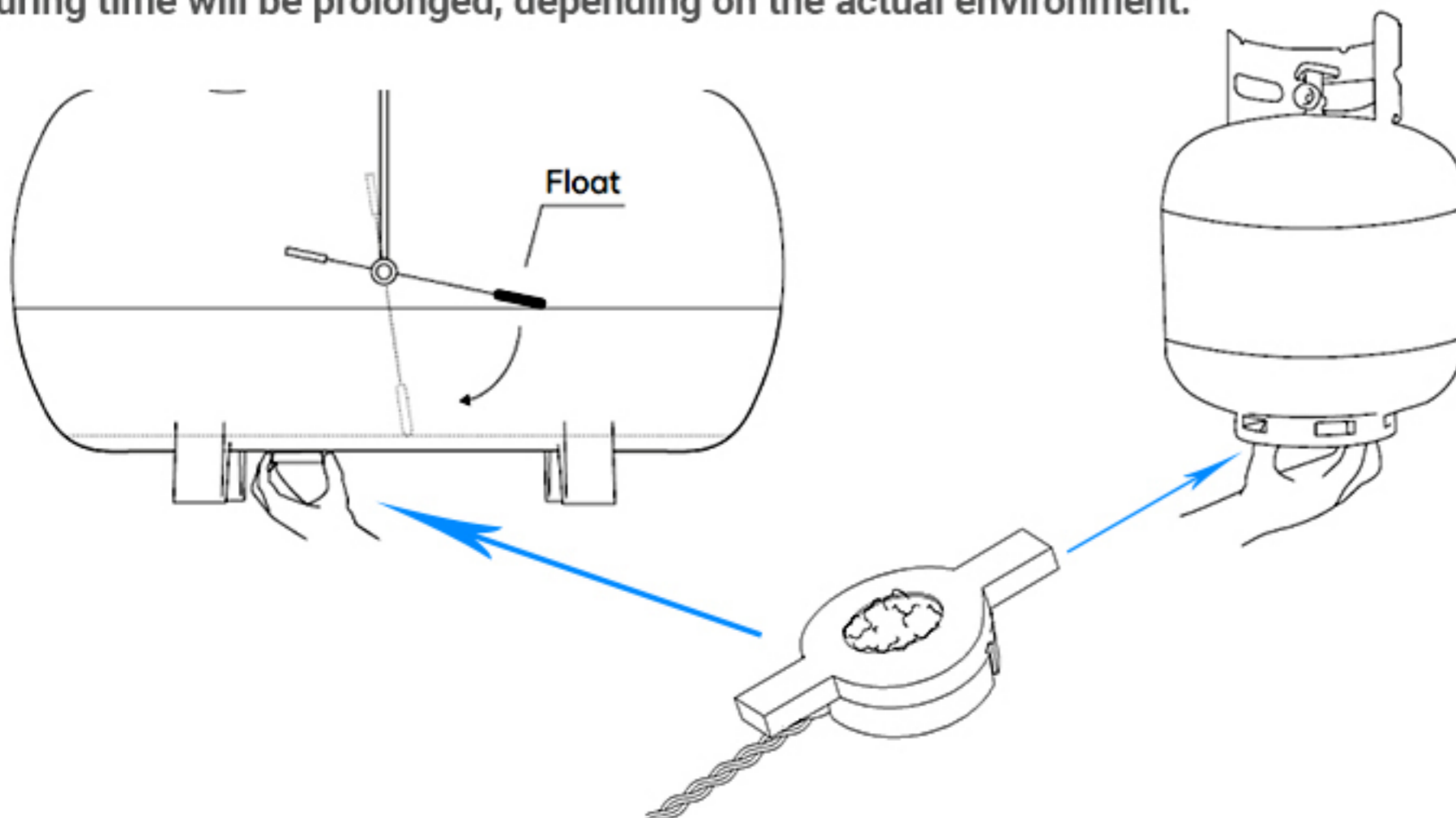


Coating AB glue



Tear off the top layer of release paper

5.8 Paste the sensor that has been coated with AB and torn off the release paper to the spot where the original test meets the requirements and is clean. After ensuring that the EVA-3M is firmly glued to the container, it is necessary to observe the waveform displayed by the host computer again and it should also meet the requirements. At room temperature of 25°C, the AB glue is initially cured for about 5-10 minutes, and it can be used after 1 hour after it is completely cured. When the temperature is low, the curing time will be prolonged, depending on the actual environment.



After the sensor module is installed, final confirmation is required.
As shown in the figure, the signal line of each level is smooth and burr-free.

