



Product Name	GAOTek PORTABLE CO DETECTOR
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Contact us: sales@gaotek.com

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1. Note

Note: Some incorrect operations will cause damage to the instrument, in order, please adhere to the following notes,

⚠Important: please read the user manual carefully before using it.

⚠Warning: use non-replacement of the company, may be caused damage to the product.

⚠Warning: If incorrect operation, the lithium battery of the instrument, may esker explosion. Please don't remove the battery or put an identifier.

⚠Warning: To prevent ignition of flammable gases, do not charge the battery in hazardous environments

⚠Warning: Top even ignition of flammable gases, strictly read, understand, and follow the manufacturer's maintenance procedures

⚠Do not cover or insert any foreign instrumental arm port, it cannot exist around the foreign body. Otherwise, it will affect the alarm sounds

⚠If you find the instrument is not working properly, please contact a trained technician immediately

⚠To prevent damage to the instrument, please turn off the power before opening the cover of the instrument. Disconnect the battery and instrument before repair.

⚠Please Note: Hunan GR II Instrument Co., Ltd. Matching battery (3.7V,3000mAh). Other accessories may reduce the product's safety and reliability! When the charge must be carried out to confirm there is no danger to the environment! For security reasons, the instrument can only be wiped with a damp cloth. This product can only be operated and repaired by professionals, making must be fully read and understand this manual before operating and maintenance.

Dependingonambientairconcentrationsofdifferentinstrumentsatleastonceeverysix

Months should be calibrated

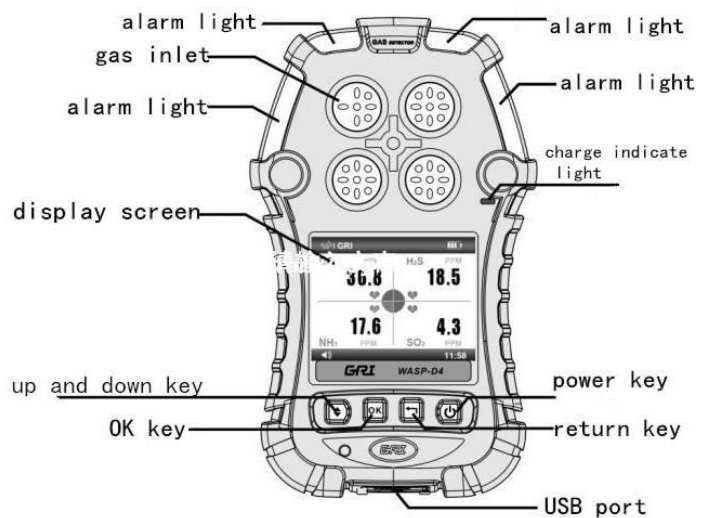


2. Basic information of the instrument

WASP-D4 portable composite gas detector is a portable multi-gas detector. It while continuously monitoring four gases: O₂, LEL (combustible gas), CO, and H₂S. Also, the GRI instrument provides four kinds of sensor type customization. Users can be more able to match any of the four according to their need to select the sensor. Each gas concentration degree will be displayed on the TFT color liquid crystal. The instrument provides a user-settable low concentration of self / high alarm and STEL / TWA alarms. The instrument uses a new generation of imported toxic gas sensors, PID photoionization sensors, catalytic combustion of combustible gas sensors, and independent research and development of infrared gas sensors, safe and reliable, providing security for staff poisonous gases and dangerous environment

2.1 Appearance of instrument

The instrument includes a display screen, four highlighted alarm LED lights, a charging indicator light, a buzzer, and four action buttons, the display is used to display a variety of test data and instrument status information, and a charge indicator to indicate charge state. USB interface can be charged, as well as to connect with the host computer. Built-in vibration motor, alarm sounds the alarm with a vibration alarm, allowing users to more easily use in noisy environments.





2.2 Features

<p>Audio Alarm</p>	<p>For alarm, warning, and parameter modification notification information. There are two different concentrations of frequency interval audio alarms.</p> <p>Low concentrations of low-frequency, long intervals</p> <p>High concentrations of high-frequency, short interval</p> <p>If gas concentrations are above the alarm value, the detector will continue high alarm until the gas concentration is below the high alarm value, then the detector will be converted to a low concentration alarm state until the gas concentration readings below the low concentration alarm values</p>
<p>Vibration alarm</p>	<p>In the audio alarm, a vibration alarm will follow the produce, the instrument vibrate</p>
<p>Visual alarm</p>	<p>The detector around the instrument is equipped with alarm LEDs, there are two different gas concentrations frequencies of flashing alarm.</p> <p>Low concentrations of low-frequency flashing light-emitting diode</p> <p>High concentrations of high-frequency flashing light-emitting diodes</p>
<p>USB port</p>	<p>there is a USB port at the bottom of the instrument which can communicate with the host computer, PC Calibration</p>
<p>clamp</p>	<p>In the back of WASP-D4, you can clip on a belt or the like materials, to prevent the instrument falls when on hand</p>
<p>Unit Conversion</p>	<p>Ppm and mg/m³ unit switch,</p>



Built-in large capacity memory	Built-in high-capacity flash memory data can be set a s storage interval, automatically store data, and export the data to a computer
Multi-language menu display	Can switch to Chinese or English
Easy to carry	Small, light, easy to carry
TFT display	high resolution, high brightness, display fine
Safety	you can set a password to strict and protect the configuration menu changes, You must enter the correct password to access and modify the current parameters in the configuration menu



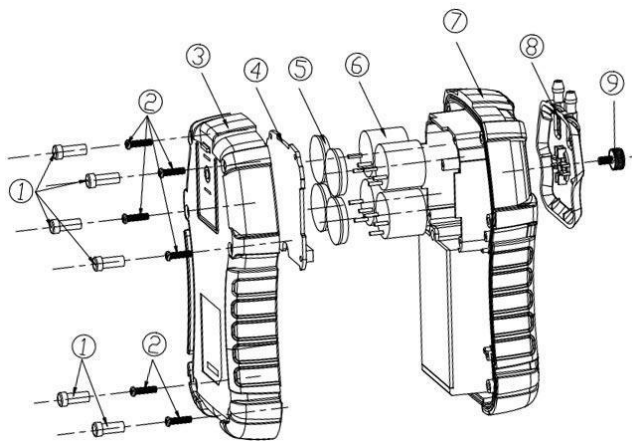
3. Instrument performance

Product Type	Portable multi-gas detector
Sensor type	Toxic electrochemical, catalytic combustion of combustible gas, PID photoionization, ad hoc research, and development of infrared gas sensor
Battery	Built-in rechargeable lithium battery (3.7V,3000mAh)
Operating hours	Fully charged for longer than 20 hours
Charging time	Less than 4 hours
Display	TFT colorful screen
Alarm	Audible alarm, a red LED light alarm, vibration alarm
Keyboard	4 keys
Sampling way	Diffused type
History record	30-second intervals can store more than one month's record
Alarm record	200 alarm recording, loop record
Calibrate	2-point calibration, you can set the nominal concentration
Operating temperature	-20--55°C
Working humidity	0-95% Relative humidity (non-condensing)
Size	130*80*42mm
Weight	300g
Warranty	1 year

4. Product selection

Selection	Electrochemical sensor	Combustion catalytic sensor	PID sensor	Infrared sensor
WASP-D4 PRO	• (3 kinds)	• (Yes)	0	0
WASP-D4 PRO EC	• (4 kinds)	0	0	0
WASP-D4 PRO PID	• (2 or 3 kinds)	⊖(optional)	• (yes)	0
WASP-D4 PRO IR	• (2 or 3 kinds)	⊖(optional)	0	• (1 or 2 kinds)
WASP-D4 PRO PID+IR	• (1 or 2 kinds)	⊖(optional)	• (yes)	• (1 or 2 kinds)

5. Parts of the instrument assembly drawing



- ①: screw stopper ②: Screw ③: the lower lid ④: Sensor Board
- ⑤: sensor plate ⑥: Sensor ⑦: cover ⑧: Calibration cover
- ⑨: Calibration cover fixing screw

6. Charge

It should be charged before use and the instrument should be charged via the USB interface. Please pull out the USB soft plug before charging, connect the USB charger, and the

instrument automatically starts charging, The charging indicator light will be red, after full

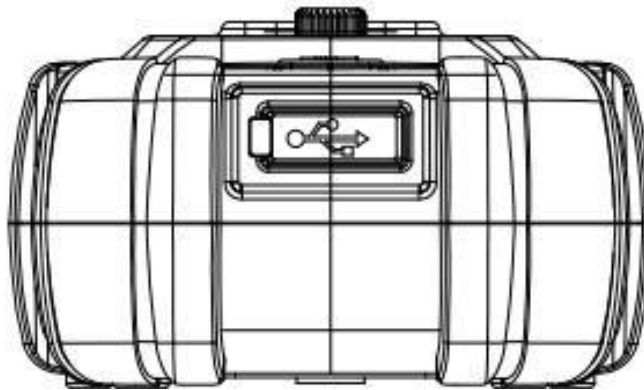
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turns green.

⚠ Warning: DO not charge and replace the battery in a hazardous environment!

When the battery voltage is less than the operating voltage, the instrument will automatically shut down. In this case, the instrument cannot boot, you must connect



When the battery is less than 20% and less than 10% of the buzzer sounding, the power indicator on the LCD screen has a red low-battery warning symbol, when the battery is running out, the instrument automatically shuts down, and low on the LCD Auto power off 3 seconds countdown.

Important notice! After the battery is depleted and needs to be charged, do not open the instrument!

7. Battery use

Note: prohibit users from replacing the battery unauthorized, if the battery needs to be replaced, please contact the technical support of the GRI instrument.

Battery performance is affected by many factors, including sensor type, temperature using the instrument, and the chosen and used functions or settings.

To achieve optimal battery performance, observe the following rules: 1, a new

battery or unused battery takes a long long time to charge;

2, charging, keep the battery at or near room temperature;

3, high temperature, exposure, and other factors will reduce battery life, try to



avoid this type of environment.

4, after long-term use, the battery will gradually wear out and need to be charged because of a long time, this is normal. But if you find the instrument using the normal charging time significantly reducing the charging time increases, you need to buy original batteries or batteries approved by the Company, inferior parts can damage equipment and cause danger! since the battery is for a long time on hold or when battery power is low, insert the charger after a period required to properly display the charging interface, users wait.

Note: Please take care of the environment and your safety, do not be discarded anywhere!

WARNING: The battery short circuit in any form may cause serious consequences explosion, fire, or personal injury!

8. Instrument startup and shutdown

Start UP

Press and hold the power button for more than three seconds, and the instrument automatically turns on. after seeing the following screen image the instrument is turned on. Boot into, speaker alarm, after shaking started, the instrument self-test 90s, shows the concentration detection interface, thus, the whole process has been completed.

Tip: When you turn the instrument buzzer sound is very loud, you can hold a finger on the buzzer sound hole center to decrease the volume. During normal use, please do not block the sound hole!

Note: If the battery power is low, the power shortage prompted information, the instrument automatically shuts down into hibernation.





Self-check instrument performance, and preheat. If the following conditions,press the power button for 3 seconds to restart the device.

- The buzzer does not sound
- Vibration alarm does not work
- LED does not light
- Indicating an error

After restarting, if the information is still there, please contact technicalsupport.

Shutdown

In addition to the instrument preheat mode, regardless of whether the instrument is in any other mode, hold down the switch button for 5 seconds, release the button, the screen is off, and the instrument is turned off.

9. Operation of the instrument

9.1 Overview of operation

Instrument during normal use, there are two modes of operation: normal mode, and program mode. Conventional mode is the mode to enter after the start of the instrument, also called measurement mode. After booting the instrument automatically enters the normal mode to measure gas concentration and displays the current measured gas concentration. Programming mode: After entering the modemenu in programming mode, you can change various parameters of the instrument. In the programming mode, you can zero and span calibration. Under normal circumstances, you can use the normal mode.

9.1.1 Conventional mode

Normal mode: The instrument enters the normal mode boot default, in the normal mode, the instrument real-time display of gas concentration measurement, the measuring data recording. Within this mode, you can display the battery power, gas type, current real-time concentration, concentration units, and time. As shown below:



9.1.2 Programming mode







Programming Mode: In measurement mode, press the [OK] key to enter the programming mode. 6 sub-menus display the programming mode, enter each menu, and you can make various types of parameters.



Enter the programming mode, the cursor appears in the first item "Calibration" and press [up and down] keys to move the cursor to the next item, press the [OK] key to enter the submenu. Press the [Back] key to return to the measurement mode.



There are six function main menus in programming mode, each for parameter setting, gas calibration, alarm settings, language settings, history, and system settings. And other functions. The main menu and sub-menu content in programming mode are as follows:

				settings. 	
1. gas type	1. zero	1. lower value alarm	Language setting	1. history record	1. Address setting
2..decimal	2. Range calibration	2. high value alarm		2. alarm record	2. backlit light
3. Range	3. restore default	3. STEL		3. clear record	3. backlit time
4. gas unit	4. ADC value	4. TWA		4. store interval	4. time setting
5. channel address	5. calibrate period	4. Sound setting		5. store capacity	5. display definition
6. display location		6. vibrate alarm			
7. calibration time					
8. calibrate period					

9.2 Instrument menu operation

9.2.1 Calibration settings

Instrument calibration mode is as follows: for each gas individually calibrated, select calibration channel by menu, please adhere to calibration rules to calibrate, or you may not succeed!



9.2.2 Zero calibration:

Calibration conditions: before zero calibration put the sensor in pure nitrogen at least 60s. Then in the calibration sub-menu to select the zero calibration, press the [OK] key to pop up a dialog box, and select whether zero calibration (the default is no). Press the [up and down] keys to select, "OK" to perform a zero calibration, and press the [OK] key to zero calibration, if the buzzer sounds, it means the calibration was successful. At the same time, Dynamic displays the current value of the option value, and the Zero calibration menu displays current gas concentration values.

Range Calibration: The instrument needs to be calibrated at the standard gas concentration. Like. the same as zero calibration, range calibration should be placed in standard gas at least 60s, press the [OK] key to pop up a dialog box, and select whether to scale calibration (the default is no). Press the [up and down] keys to select, Press "OK" to



range calibration, and press the [OK] key to range calibration. Hearing the buzzer sound means range calibration was successful. Restore Default: to restore calibration parameters to the factory set. NOTE: Before calibrating restore the default setting first. ADC value: dynamic display of the current environment ADC value. NOTE: Read-only cannot be modified. The concentration values.

9.2.3 ALARM SETTINGS

Low alarm:

(1) Press [up and down] to select the location of figures, and numbers from 0-9, and up to 9, press[up and down]key to return to 0;

(2) Press the [ok]key to move the cursor to the next digit;

(3) Enter the desired number, and press the [OK] key for 3 seconds to save the parameters, when they hear the buzzer sounding and the index light long bright means the data programs or parametric programming is unsuccessful, the specific cause of failure Please refer to Appendix 1;

(4) If you do not want to modify the data, press the [return] key;

High alarm: high alarm and low alarm modification methods modify the same way. Note: The low alarm value cannot be greater than the high alarm value;

STEL alarm: STEL alarm modification methods are the same as the low alarm modification;

TWA Alarm: The TWA alarm modification method is the same as the low alarm modification;

Sound settings:

(1) Press the [up and down] key to select whether to turn off the buzzer sounds; ON buzzer is on, OFF is off the buzzer

(2) Press the [OK] key to confirm modifying parameters;



9.2.4 Vibration alarm:

The vibration alarm modification method is the same as the sound settings modification.

9.2.5 Language Setting

The measuring instrument supports Chinese, and English displays, modifying methods the same as the sound settings.

9.2.6 History

(1) history: Press the [up and down] key to scroll up and down to view. Data format: Time (year, month, day, hour), concentration;

(2) Clear History: Clears all historical data measurement;

(3) Storage interval: Set a data recording interval (30-240), unit: seconds;

(4) Memory capacity: Displays the current historical data memory percentage share of total capacity.

9.2.7 Parameter settings

for Instrument displaying measured gas type, precision, and other parameters.

1 gas type: Select the type of gas detected.

2, the decimal point: select the measurement accuracy. (Optional 0-4 decimal places)

3, gas range: modify the instrument range.

4. Gas unit: Select the unit of measurement instrument. (PPM, mg/m³, %LEL, %, %VOL)

5, SN: sensor number.

6, TVOC: TVOC gas type. (Only for TVOC gas)

Note: These menu factory technical personnel have operating authority, the user on lyre ad permissions.,



9.2.8 SYSTEM SETTINGS

It is used to set the address, the backlight parameters, and the time.

Addressing:

- (1)
 - (2) (1) Press [up and down] to select a digital value, from 0-9. When the digital reaches 9, press the [up and down] key to return to 0; Note: The address range is 1-255.
 - (3) (2) Press [OK] key to move the cursor to the next digit;
 - (4) (3) Enter the desired number, and press [OK] for three seconds to save the parameters. When the buzzer sounds and the green index light after a long bright means that data programming was successful, or unsuccessful, For the specific cause of the failure, please refer to Appendix 1;
 - (5) (4) If you do not want to modify the data, press the [return] key. Backlight brightness: (1) Press the [up and down] key to adjust the backlight brightness level.
 - (6) 1) (2) Press [OK] to confirm the change in backlight brightness; (3) If you do not want to modify the data, press the [return] key. Backlight time: (1) Press [up and down] keys to adjust the backlight time; Note: in minutes. (2) Press [OK] to confirm the change backlight time; (3) If you do not want to modify the data, press the [return] key. Time setting: Press [OK] key to set the time in hours to set an example, the same as other settings (1) Press [up and down] to increase the cursor up and down digits; (2) Press [OK] key to move the cursor to the next digit; Enter the desired number, and press [OK] for three seconds to save the parameters, when they hear the buzzer sounding and the green index light after a long bright means Data programming was successful, or unsuccessful, the specific cause of failure, please refer to Appendix 1;
-
- (8) If you do not want to modify the data, press the [return] key; after the time setting, press the [return] key to return.

10. Instrument fault and troubleshooting

Fault	The possible reason and resolution
Can't start up	Cause: battery power off, battery failure Resolution: charging and replace batteries



Reading too large too small	Reason: calibration failure, calibration error Resolution: recalibration
Sound, light, and vibration alarm failure	Reason: buzzer, LED, vibration alarm, buzzer or plug Solution: contact the customer service center, remove blockage
Instrument Programming unsuccessful	Cause: Memory failure solve: Contact the company technician for tech support



11. Quality assurance

We can guarantee that with GRI Instrument's portable gas detector, there will be no defects in materials or workmanship under normal use within its deadline.

Type	Name	Display	Backlight	LED	Buzzer	Vibrate	grade
Operate	Button operate	NO	Open	No	1short sound	NO	Highest 1
	Operate successful		Open	Light	1long sound	500ms	2
	Operate failure	FALL	open	flash	2short	300ms	3
error	A1valueerror	E1	Open	Flash	2 short sound	300ms	4
	A2 value error	E2	Open	flash	2short sound	300ms	5
	Range value error	E3	Open	flash	2short sound	300ms	6
	Zero calibrate error	E4	Open	Flash	2short sound	300ms	7
	Range calibrate error	E5	Open	Flash	2short sound	300ms	8

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TWA value	E6	Open	Flash	2short	300ms	9
error				sound		
STEL value	E7	Open	Flash	2short	300ms	10




The above warranty includes sensors and, a battery. These devices in 1 year from the first time date of shipment, or do not exist materials or workmanship defects from the first time used in one year. due to being the priority. In an accompany Ing instrument product GRI text material except otherwise stated.

12. Instrument alarm information :

	error				sound		
Turn off	Normal off	Power OFF	Open	Light	1long sound	500ms	11
	Lower power off	Low OFF	Open		1long sound	500ms	12
	Storage fault	F2	Open			300ms	13
	Data invalid	F3	open			300ms	14
	Circuit abnormal	F4	Open			300ms	15
	Outside IC fault	F5	Open			300ms	16
	Probe abnormal	F6	Open			300ms	17
	Communication	F7	Open			300ms	18


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	abnormal						
	Power	F8	Open			300ms	19
Warning	abnormal						
	Calibrate expires	D1	Open			300ms	20
	NO calibrate	D2	Open			300ms	21
	Sensor expire	D3	Open			300ms	22
	Sensor overload	D4	open			300ms	23
	Overworking scope	D5	Open			300ms	24
	Battery low	D7	Off			NO	25
	Record full	D8	Open			300ms	26
	Overrange	OVER	Open	Flash	2/s	300ms	28
	A2orhigh alarm	 red	Open	Flash	2/s	300ms	29
Alarm	A1orlower alarm	 Orange	Open	Flash	1/s	300ms	30
	STEL alarm	 Red Flash	Open	Flash	2/s	300ms	31

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TWA alarm		Open	Flash	1/s	300ms	32
	Orange flash					

13. Electro-chemical sensor order and parameter table:

Selection	Gas type	Range	Lower alarm value	High alarm value	TWA value	STE L value	Unit
W4-LEL	LEL	0-100%LEL	25	50	--	--	%LEL
W4-CO	CO	0-500PPM	35	200	35	200	PPM
W4-H2S	H2S	0-50PPM	10	15	10	15	PPM
W4-NH3	NH3	0-100PPM	25	50	25	35	PPM
W4-SO2	SO2	0-20PPM	2	5	2	5	PPM
W4-NO2	NO2	0-20PPM	3	5	5	5	PPM
W4-CL2	CL2	0-20ppm	0.5	1.0	0.5	1.0	ppm
W4-Br2	Br2	0-20ppm	0.1	0.5	0.1	0.5	ppm
W4-CLO2	CLO2	0-20ppm	0.1	0.2	0.1	0.3	ppm
W4-PH3	PH3	0-5ppm	0.3	1.0	0.3	1.0	ppm
W4-HCL	HCL	0-20ppm	2.0	5.0	2.0	5.0	ppm
W4-HBr	HBr	0-20ppm	2.0	5.0	2.0	5.0	ppm
W4-HCN	HCN	0-100ppm	4.7	10.0	4.7	10.0	ppm
W4-H2O2	H2O2	0-100ppm	1.0	3.0	1.0	3.0	ppm
W4-ETO	ETO	0-20ppm	1.0	5.0	1.0	5.0	ppm
W4-CH2O	CH2O	0-5ppm	0.1	0.3	0.1	0.3	ppm
W4-COCL2	COCL2	0-1ppm	0.1	0.3	0.1	0.3	ppm
W4-NO	NO	0-100ppm	25	50	25	50	ppm
W4-SiH4	SiH4	0-50ppm	2.0	5.0	2.0	5.0	ppm
W4-O3	O3	0-5ppm	0.1	0.3	0.1	0.3	ppm
W4-H2	H2	0-1000ppm	200	500	200	500	ppm
W4-O2	O2	0-25% vol	19.5	23.9	--	--	%

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W4-C2H4	C2H4	0-200ppm	20	50	20	50	ppm
---------	------	----------	----	----	----	----	-----

14. PID sensor order and parameter table:

Order number	Label color	Range	resolution	Response time	Lower Alarm value	High alarm value	TWA value	STEL value
W4-PID-10000	green	10000	1000ppb	<3sec	1000	4000	800	2000
W4-PID-2000	purple	2000	500ppb	<3sec	200	600	100	400
W4-PID-200	red	200	50ppb	<3sec	20	60	40	100
W4-PID-20	yellow	20	5ppb	<3sec	2	8	5	10
W4-PID-2	blue	2	0.5ppb	<3sec	0.5ppm	1.0ppm		

Sensor order and parameter table:

Order number	Gas type	series	Model number	Range	resolution
W4-IRCH4-5	CH4	A	CH4/A-5	0-5% VOL	0.01% VOL
W4-IRCH4-100			CH4/A-100	0-100% VOL	0.1% VOL
W4-IRCO2-1	CO2	A	CO2/A-1	0-1% VOL	0.001% VOL
W4-IRCO2-10			CO2/A-10	0-10% VOL	0.01% VOL
W4-IRCO2-20			CO2/A-20	0-20% VOL	0.01% VOL
W4-IRCO2-100			CO2/A-100	0-100% VOL	0.1% VOL

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W4- IRHC-5	HC	A	HC/A-5	0-5% VOL	0.01% VO L
W4- IRHC-100			HC/A-100	0- 100% VOL	0.1% VOL

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