Manual

Hook scale with a load of up to 3t

wagPRO-H3000

HDWR
Hardware for business

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Specifications:

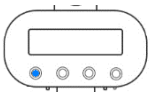
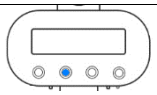
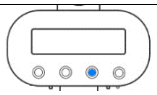
- **Warranty:** 1 year
- **Material:** Steel
- **Maximum nominal load:** 3000 kg
- **Measurement accuracy:** +/- 1000 g
- **Maximum permissible load:** 100% of nominal load
- **Maximum safety load:** 120% of nominal load
- **Scale Legalization:** No
- **Display:** digital, up to five numbers
- **Display backlight:** red
- **Additional functions:** screen pause, weight tare, unit swapping
- **Available weight units:** kg, t
- **Battery type:** lead-acid
- **Power supply:** mains, rechargeable
- **Battery capacity:** 5000 mAh
- **Battery life:** up to 4 days
- **Standby time:** up to 2 weeks
- **Auto shut-off:** adjustable, max. after 60 minutes of inactivity
- **Operating temperature:** 10- 40°C
- **Operating humidity:** up to 90% at 20 °C
- **Device dimensions:** 21.8 x 13.5 x 51.5 cm
- **Package dimensions:** 34 x 27 x 38 cm
- **Weight of the device including handles:** 13 kg
- **Weight with packaging:** 14.7 kg

Set contents:

- Hook scale,

- hook handle with safety latch and fastening pin,
- 230V AC adapter,
- pilot
- Manual.

Buttons:

Button	Button name	Function	Button on the remote control
	On/Off	Enable/ Disable	A
	Hold	Pause	B
	Accumulate	Cumulation	C
	Hard/Zero	Taring/ Reset	D

Button Functions:

Action	Function during operation	Function in the menu
Short press [On/Off]	Turn on/off the scale	Exit the menu
Short press [Hold]	Locking or unlocking values	Select the parameters above or add 1 to the flashing digit
Short press [Accumulate]	Accumulation of weighted values	Select the parameters below or select the number on the right
Short press [Tare/Zero]	Tare or zero weighted values	Confirm the selected parameters or input value

Long hold [On/Off]	Running the calibration	/
Long Hold [Hold]	Pairing the remote control	/
Long Hold [Accumulate]	Cancel or delete accumulated data	/
Long Hold [Tare/Zero]	Tare or return to zero with a delay	/

On/Off button:

1. Short press [On/Off] to turn on the scale.
2. Short press [On/Off] until "oFF" appears on the screen to turn off the scale.

The screen will show the version number (for example, A0.8.01), the battery voltage (for example, U=6.80), the maximum weight capacity (for example, 3000), and the value jump (for example, 1, which means a 1 kg jump).

If the weight of the goods on the weighing platform is less than 20% of the rated load, the screen will show "0", which means zero weight. If it does not, the system will automatically set zero out of range and the actual weight value of the item will appear on the screen.

Tare/Zero button:

1. Manual tare/zero: Hang the item on the scale and briefly press the [Tare/Zero] button after the weight value has stabilized. If the weight is less than 2% of the maximum range, the data will automatically change to zero and the tare light will turn off. If

the weight exceeds 2% of the maximum range, the system will stop tare while the tare light will work and the zero light will turn off.

2. Auto Tare/Zero after 9 Seconds: Press and hold the [Tare/Zero] button for 3 seconds until the screen shows "tAr-9", then release the button and the screen will show "tAr-x", where x is the consecutive seconds descending, counting down the time to tare the scale. Hang the article and the system will perform tare/zero automatically when "tAr-0" appears on the screen. If the weight is not stabilized, the screen will show "—". When the scale is stabilized, the screen will automatically show zero.

Accumulate button:

When the weight is greater than 0, briefly press the [Accumulate] button to sum the last weight values. The screen will first show "-x-" (x is the number of accumulated weights), then the values of the total weights, and the "accumulate" LED will be activated.

If the weight is not greater than 0, short press the [Accumulate] button to check the cumulative values of the balance when the "Accumulate" LED is active. The screen will first show "-x-" (x is the number of accumulated weights) and then the values of the sum of the masses.

Press and hold the [Accumulate] button to delete the accumulated weight values, and the accumulation indicator light will turn off.

Hold button:

1. Short press the [Hold] button to lock the screen to the current

weight value. When this function is active, the "Hold" LED will activate.
2. Short press the [Hold] button to end the screen lock. When this function is deactivated, the "Hold" LED will turn off.

Pairing the remote control with the hook scale:

Press and hold the [Hold] button until "-A-" appears on the screen. Press and hold the button on the remote control "A" when "-a-" appears on the screen; press and hold the button on the remote control "B" when "-b-" appears on the screen; press and hold the button on the remote control "C" when "-c-" appears on the screen; press and hold the button on the remote control "D" when "-d-" appears on the screen.

When pairing is complete, the screen displays "End", which means that the pairing of the remote control with the hook scale is complete. When finished, the scale can be operated with the A/B/C/D buttons on the remote control.

Calibrating the Scale:

1. Before calibration, make sure that the balance is not exposed to any interfering factors such as wind, vibration, magnets, etc.
2. Before calibration, prepare a calibration weight to calibrate the balance.
3. To enter the calibration mode, press and hold the [On/Off] button until "CAL" appears on the screen.
4. When the screen shows a flashing "0.0", you need to calibrate the zero value. Before proceeding with calibration, make sure that there are no other objects hanging on the scale. Press the [Tare/Zero] button to enter the zero value calibration, and the system will automatically go to the next step.
5. When a flashing uncalibrated weight value appears on the

screen, it indicates that this weight value needs to be calibrated. Make sure the corresponding weight on the scale hook, press [Tare/Zero] to enter the calibration mode, and the system will automatically save the data and complete the calibration.

Note: If the hook scale says "No", it means that the scale is too small or the load cell is out of alignment.

Note: If you want to correct the calibrated weight value, press [Hold] or [Accumulate] to enter the verification mode. Press [Accumulate] to change the flashing digit and press [Hold] to correct the flashing data. When finished, press [Tare/Zero] to confirm it.

Parameter setting:

1. When the balance is off, press and hold the [Tare/Zero] button, then press and hold the [On/Off] button until "SEtuP" appears on the screen to enter the parameter setting F0~F9.
2. In setting mode, press [Hold] to enter the next menu parameter; press [Accumulate] to go back to the previous menu parameter; press [Tara/Zero] to enter the menu.
3. After entering the menu, press [Hold] or [Accumulate] to correct or revise the parameter and press [Tare/Zero] to confirm it.

Menu code	Function	Feature Options
F0.codE	Check your internal code	Null
F1.bps	Data rate	0=12001=2400 2=4800

		3=9600
F2. Uar	Communication format	0=dJ (continuous communication format) 1=dH.1 (RS232-1 continuous communication format) 2=dH.2 (RS232-2 continuous communication format) 3=dH.3 (responsive RS232-3 communication format) 4=db (continuous communication format) 5=yZH (continuous communication format) 6=yS (continuous communication format) 7=JC.1 (plug-and-play when the measured weight is stable, one-time send) 8=JC.2 (plug-and-play, the value must go back to zero; when the measured weight is stable, one-time send) 9=yH (continuous communication format) A=LAE (LAkE when the value is stable, one-time communication format) b=HP (Necessary return to zero. When the value is stable, it provides a one-time communication format) C=FSy (continuous communication format) d=HP.1 (Button Press, One-Time Send) E=JC.3 (button press, plug-and-play, one-time delivery) F=yS.1 (with stable, continuous supply)
F3. Ast	Zero Tracking	0.25D/0.5D/1D/2D/3D

		(d is the division value displayed)
F4. CAP	Range/decimal place	Range: 1000, 2000, 3000, 5000, 6000, 10000, 15000, 20000, 30000, 50000, 60000 Decimal: 0/0.0/0.00/0.000/0.0000
F5. Inc	Split value displayed	d=1～2, d=2～5, d=5～10, d=1, d=2, d=5, d=10, d=20, d=50 (Note: d=x~y is a division of the double range)
F6. Uni	Display unit	Kilograms (kg) or tonnes (t)
F7.CLr	Pairing the remote control	Countdown to 10 seconds, delete all matching codes and remote control connections.
F8. Led	Automatic energy saving	oFF: Disable the automatic power saving function Auto: Enable automatic power saving function
F9.oFF	Auto shut-off	=0\15\20\30\40\50\60 minutes (=0 means to disable the auto-off function)

Function description:

Tare/Zero Command

No	Hexadecimal Code Command	Function	Statement
1	01 57 30 0D	Read the weight value	No parameter (irrelevant in continuous communication format)
2	01 25 EF 0D	Tare	No parameter
3	01 25 FF 0D	Zero	No parameter

4	01 30 30 30 30 30 30 30 AA 0D	Zero setting (for calibration)	30 30 30 30 30 30 30
5	01 3x 3x 3x 3x 3x 3x 3x AA 0D	Calibration (underlined part - designated weight)	3x 3x 3x 3x 3x 3x 3x Example: The calibration command is 01 30 30 31 32 33 34 45 AA 0D if you want to load 001234.5kg weight for calibration. Example: The calibration command is 01 30 30 31 30 30 30 30 AA 0D if you want to load weight 001000.0kg for calibration.

Recommended Calibration Method

1. Remove the items to be weighed from the hook sling and send the reset (calibration) command code.
2. Load the weight (or known weight of the article). Send the calibration command code when the weight values are stabilized. The command code is 10 bytes in format and the format is shown in the graph above. However, if the calibrated weight is too light, it can lead to calibration failure or inaccuracy of the weight value. It is suggested that a heavier weight that is greater than 1/3 of the range be used during calibration.

Continuous Upload Format:

Each DataFrame consists of 18 hexadecimal codes.

These are:

2-digit status code

1-cyfrowy separator

2-digit gross/net weight code

1-cyfrowy separator

1-digit balance polarity code

7-digit weight code

2-digit unit code

1-digit end of line

1-digit line break.

Example: The net weight value is displayed as 1234.5 kg under steady conditions.

(Send: ST, NT, +01234.5kg)

(18 kodów szesnastkowych to „53 54 2C 4E 54 2C 2B 30 31 32 33 34 2E 35 6B 67 0D 0A”)

Digit position	1~2	3	4~5	6	7	8~14	15~16	17	18
Character	ST	,	NT	,	+	01234.5	Kg	0x0D	0x0A
Description	Status code	Separator	Gross/Net Weight	Separator	Weight Symbol	Weight Value	Symbol Weight	End of Line	Line break

			Cod e						

Example:

Digit position	Example	Description
1~2	ST	2-digit status code: OL means the weight is out of range ST means the weight is stable US means the weight is unstable
3	,	1-cyfrowy separator
4~5	NT	2-digit code for gross/net weight: GS means that the last weight is the gross weight NT means that the last weight is the net weight
6	,	1-cyfrowy separator
7	+	1-digit polarity code of the scale: + means the weight is positive - means that the weight is negative
8~14	01234.5	7-digit weight code
15~16	medical history	2-digit unit code
17	0D (16 HEX)	1-digit end of line
18	0A (16 HEX)	1-digit line break