**805HP** Handheld Digital Weight Indicator Operations Manual (V1612)



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# 1. Introduction and Product Features

Thank you for choosing Anyload 805HP Handheld Digital Weight Indicator. The 805HP hand held digital weight indicator is a general purpose durable indicator that provides high accuracy, reliability, and multiple functions. The 805HP can drive up to eight  $350\Omega$  or thirty two  $1000\Omega$  load cells. With an IP65 ABS wash down enclosure, the 805HP digital weighing indicator is ideal for use in Transportation, Entertainment, Aerospace, Military, Food and Agricultural industry

#### **Key Features include:**

- Exceptionally long battery life: up to 1,600 hours with 3-AA batteries
- > LED backlight and panoramic FSTN LCD view angle
- Material: ABS
- IP Rating: IP65
- LCD 6-digit display with LED backlight
- Non-volatile memory for reliable data saving
- Units of Measurement: kg, g, t, lb, Klb, N, kN, oz, userdefined unit
- Configurable 2 set-points for precaution and warning
- User-selectable display interval
- Overloading recording
- > 10 user-selectable analog-to-digital converting frequency
- Weight calibration and digital calibration
- User-selectable auto power-off and power-saving timing
- Functions: Auto-Zero Tracking, Auto-Zero, Manual-Zero, Hold, Peak-Hold, TARE

This manual provides installation, operation and configuration information of 805HP indicator. It is recommended to go through the manual in details before installing, operating or configuring the indicator.

# 2. Safety Recommendations

Important instructions, which involve safety, are highlighted with the appropriate mark:

When it is required to work inside the indicator enclosure for some procedures described, the work can only be performed by qualified technical personnel.

# 3. Display Icon List

| lcon     | Meaning   |
|----------|---|
|          | Battery Power                                       |
| <u>↑</u> | Peak hold mode                                      |
| M+       | Save weight to memory                               |
| ↔⊅       | Acquire Tare value                                  |
| G        | Gross weight  |
|          | Cumulate Mode                                       |
| +0+      | Zero Scale  |
| ((•))    | Wireless communication is normal                    |
|          | Weight surpassed "overload warning value "signal    |
|          | Signal stability                                    |
|          | There is a hidden figure which will be shown on the |
|          | following page                                      |

## 4. Key List

| Buttons    |             | Modes                     |      |                         |                                |
|------------|-------------|---------------------------|------|-------------------------|--------------------------------|
|            |             | Normal                    | Peak | Cumulate                | Menu                           |
|            | Short press |                           |      |                         |                                |
| O          |             |                           |      |                         |                                |
| 【SWITCH】   | Long press  | Turn Off                  |      | Turn Off                |                                |
|            | Short press | Accumulate                |      | Add weight to<br>memory | Enter                          |
| CUMULATE ] | Long press  | Go to<br>Cumulate<br>Mode |      | normal                  | Add/Delete<br>decimal<br>point |

|        | 1           |                    |   |                                    |   |
|--------|-------------|--------------------|---|------------------------------------|---|
| ÷0+    | Short press | Zero scale         |   |                                    | 1 |
| 【ZERO】 | Long press  |                    |   | Clear<br>Cumulative<br>value       |   |
| T      | Short press | Holding/<br>Cancel | Clear Peak<br>Value                     | Show the<br>lowest five<br>digits  | 1 |
| 【HOLD】 |             | Go to Peak<br>Mode | Return to<br>Normal<br>Weighing<br>Mode |                                    |   |
| ->>    | Short press | Tare/Untare        |   | Gross/Net<br>Cumulative<br>Value   | Ļ |
| 【TARE】 | Long press  |                    |   |                                    |   |
| U      | Short press | Switching<br>units |   | Show the<br>highest five<br>digits | ţ |
|        | Long press  |                    |   |                                    |   |

# 5. Operation Mode



| Operation mode | Function   |  |
|----------------|--|--|
| Power-off      | When the indicator is turned off, date will be saved in    |  |
|                | non-volatile memory.                                       |  |
| Operation mode | When the indicator enter wake-up mode, all functions       |  |
|                | are enable, and the power run dynamically.                 |  |
| Power-saving   | LCD is on, but backlight is off. RS-232 circuit shut down. |  |
|                |  |  |
|                |  |  |

#### 6. Start Up

#### 6.1 805HP Wired Model

Connect load cell (communication & printer) to 805HP according to the following connection diagram:





Press **[**SWITCH**]** for one second, indicator is turned on. After indicator cycles through from 0 to 9, the indicator will enter Normal Weighing mode

#### 6.2 805HP Wireless Model

The indicator was set to match the corresponding wireless transceiver before it leaves the factory. If you need to change the indicator or wireless transceiver due to radio frequency interference, you can configure the communication parameters with the following steps in Section 9.2- Wireless Communication of this manual.

#### 7. Modes

Once the indicator is turned on or restarted the mode will automatically set to Normal Weighing mode. It can be set to various modes like Peak mode, Gross/Net Mode or Cumulate Mode

#### 7.1 Normal Weighing Mode

When indicator is set to the Normal Weighing mode,  $\mathbf{T}_{\mathbf{I}}$  (Peak mark) will not appear in the display



#### 7.1.1 Basic Operations in Normal Weighing Mode

#### I. Zero Scale

When in the Gross weight mode,  $\rightarrow$  (Tare mark) does not appear and (Gross weight) appears. Remove the load from the scale and wait until M (Stable mark) appears. Press  $\uparrow$  [ZERO], and -0+ (Zero mark) appears. Zero Scale setting completed

#### II. Acquire Tare Value

When no Tare is stored ( [Tare mark] does not appear), place the load on the scale and wait until (Stable mark) appears. Press  $\downarrow$  [TARE], Tare weight is stored. Display is in Net weight when (Tare mark) is displayed, fig (Gross weight mark) disappears.

#### III. Remove Stored Tare Value

When indicator has stored tare weight value other than 0 ( [Tare mark] appears), press  $\downarrow$  [Tare] to remove the stored tare weight value. Display is in Gross weight mode when (Tare mark) is not displayed.

#### 7.2 Gross/Net Mode

When tare weight is stored (indicator has stored tare weight value other than 0), press  $\downarrow$  [TARE] to change from net weight to gross weight or vice versa.

(Gross Weight mark) appears when in gross weight mode. (Gross Weight mark) disappears when in net weight mode.

#### 7.3 Peak Mode

To activate Peak Weighing Mode, long press  $\rightarrow$  [HOLD] and (Peak mark) appears

#### I. Peak/Normal Weighing Mode

When (Peak mark) appears, peak mode is activated. Display always shows the maximum value of load which has been applied to the load cell. When the load is removed, display still shows the peak load. When (Peak mark) disappears, peak mode is deactivated. Value shown on display changes according to the load applied to the load cell. Long press  $\rightarrow$  **[**HOLD can change indicator from Peak mode to Normal Weighing mode, or vice versa.

#### II. Remove Peak Mode Value

When Peak mode is on ( (Peak mark] appears), remove the load and short press  $\rightarrow$  [HOLD].Peak mode value is removed, and indicator starts another Peak mode operation

#### 7.4 Cumulate Mode

## I. Save Value of Weight to Memory

Short press ∠ 【CUMULATE】, display will flash 'total'. M+ Memory mark) will appear. Weight is now saved to memory

## II. Show Accumulated Weight

Long press ∠ 【CUMULATE】, indicator changes to Cumulate mode from weighing mode or peak mode, or vice versa.

When indicator is in Cumulate mode, display shows the accumulated total gross weight value

## III. Gross/Net Mode

 $\mathsf{Press} \downarrow \mathsf{[TARE]}$  , indicator changes from Gross mode to Net mode, or vice versa.

Display shows total gross weight value while (Gross Weight mark) appears. Display shows total net weight value while (Gross Weight mark) disappears

#### IV. Clear Cumulative Value

Long press  $\uparrow$  [ZERO] , total gross weight value and total net weight value will be cleared

#### 7.5 Calibration Mode

In this mode, you have to enter the menu and parameter settings module. (*Refer to Section 10 of this manual for Calibration of the scale*)

#### 8. Configurations and Menu Operations

#### 8.1 Menu Operations

#### I. Menu Settings

|             | [ZERO] | [TARE] | [UNITS] | [HOLD]         | [CUMULATE]               |
|-------------|--------|--------|---------|----------------|--------------------------|
| short press | 1      | 1      | ÷       | → <sup>1</sup> | ×                        |
| long press  |        |        |         |                | add/delete decimal point |

#### **II. Menu Operations**

#### Entering in the menu :

Press directional  $\leftarrow, \rightarrow, \uparrow, \downarrow$  to input the passwords, and press  $\nvdash$  to enter the configuration menu.

If invalid password is entered, display will re-enter weighing mode.

#### III. Menu Structure and Parameter Description

The menu structure and keys operation are shown in the following flow diagram:



There are 4 directional keys  $\leftarrow, \rightarrow, \uparrow, \downarrow$  to be used for the operation.  $\leftarrow, \rightarrow$  are used for horizontal movement in the same level menu and parameters.  $\uparrow, \downarrow$  are used for moving up and down through different level menus.

Use  $\leftarrow$ ,  $\rightarrow$  to choose a parameter in a menu and use  $\downarrow$  to move to the next level menu or parameter.

When moving into a parameter of a menu, the indicator shows the previous choice.

If you want to change the parameter values, use  $\checkmark$  to move into the parameter change status. When the parameter of a menu is a fixed value, use $\leftarrow$ , $\rightarrow$  to move horizontally. Use  $\checkmark$  to store the selected parameter and to return to the last menu.

When a parameter value of a menu is editable, directional keys  $\leftarrow, \rightarrow$  are used to edit the digit selected, directional keys  $\uparrow, \downarrow$  are used to increase and decrease the value of the selected digit. Press  $\checkmark$  to save the input values and exit

In the actual menu structure, the selected menu item is displayed horizontally. The parameter value with the symbol () is the default value of system reset.

| Menu     | Display          | Parameter                            | Parameter Value                                    |
|----------|------------------|--------------------------------------|--|
| USEr     | ЬЕЕР             | buzzer switch                        | [on]/off   |
|          | LIEEn            | background light                     | [on]/off   |
|          | 507 15 55 5 5 87 | switch                               |  |
|          | LI GHE           | Background light turn<br>off time/ s | dis/1/2/3/5/[10]/15/20/30/60                       |
|          | R OFF            | Auto off time/min                    | [dis]/1/2/3/5/10/15/20/30/60                       |
|          | -P.C             | Unit kg                              | [on]/off   |
|          | E                | Unit t                               | on/[off]   |
|          | Б                | Unit g                               | on/[off]   |
|          | ГГР              | Unit Ib                              | on/[off]   |
|          | 02               | Unit oz                              | on/[off]   |
|          | Р'L'Ь' · · · —   | Unit klb                             | on/[off]   |
|          | n                | Unit N                               | on/[off]   |
|          | - P'n'           | Unit kN                              | on/[off]   |
|          | Un               | Unit UN                              | on/[off]   |
|          | Un uRL           | User's unit                          | Any Number   |
|          | dFE U            | Default unit                         | [kg]/lb/t/g/oz/klb/N/kN/user's unit                |
| ouEr     | PrE              | Overload Warning                     | [on]/off   |
|          | PrE u            | Overload Warning<br>value            | Any Number (lower than Overload<br>Alarm value)    |
|          | ouEr             | Overload Alarm                       | [on]/off   |
|          | ouEr u           | Overload Alarm                       | Any Number (higher than Overload<br>Warning value) |
|          | RI 68-           | Historical maximum<br>overload value | (read only)  |
| Con FI G | InErE            | Division value                       | 0.001/0.002/0.005/0.01/0.02/0.05/                  |
|          |                  |                                      | 0.1/0.2/0.5/0.1/0.2/0.5/[1]/2/5/<br>10/20/50       |

|                       | C.0.0.    |                      |                             |
|-----------------------|-----------|----------------------|-----------------------------|
|                       |           | Rated Weighing       | Any number                  |
|                       | -REE      | Sampling speed/Hz    | 4.17/6.25/8.33/[10]/12.5/   |
|                       |           |                      | 16.7/33.2/50/62/123         |
|                       | 5 E B E   | Stability Judgement  | [0.5]/1/2                   |
|                       |           | times/s              |                             |
|                       | 516 r     | Stability judgement  | 0.1/0.2/0.3/0.4/[0.5]/0.75/ |
|                       |           | range/d              | 1/1.25/1.5/1.75/2/2.5/3/    |
|                       |           |                      | 3.5/4/5                     |
|                       | 6         | Acceleration of      | Any number                  |
|                       |           | gravity value        |                             |
| ERL                   | EEro      | Zero A/D count       | (read only)                 |
|                       | LoRd      | Calibrated weight    | Any number                  |
|                       | ERL       | Calibrated point A/D | (read only)                 |
|                       |           | count                |                             |
|                       | ERrE      | Zero offset value    | (read only)                 |
| d E R L               | EEro      | Zero A/D count       | Any number                  |
|                       | LoRd      | Calibrated weight    | Any number                  |
|                       | ERL       | Calibrated A/D count |                             |
| o U E                 | Eon       | Serial               | on/[off]                    |
| (For wired version    |           | communication        |                             |
| only)                 | 6803      | Baud rate/bps        | [1200]/2400/4800/9600       |
|                       | 61.5      | Output DB            | [8n1]/8o1/8E1               |
|                       | LYPE      | Communication        | [contin]/reque              |
|                       |           | mode                 | loonanjiroquo               |
|                       | rF rBb    | Wireless radio       |                             |
|                       | rr rnc    | frequency            | [2Hz]/3Hz/4Hz/5Hz           |
| <b>D</b> <i>U</i>     | Rddr      | Wireless address     | 0~255 Any number            |
| r Rdi o               | 5554      | Automatic channel    |                             |
| (For wireless version | SEEM      | search               |                             |
| only)                 |           | Manual switching     |                             |
|                       | bRnd      | channel              | 1~16                        |
|                       | 681 n     | Wireless gain        | 1~8                         |
| 595                   | uEr       | Software version     |                             |
|                       | r E S E E |                      | (read only)                 |
|                       | ,         | System parameter     |                             |
|                       | ñodE      | reset                |                             |
|                       | HUUL      | Software Mode        | [None]/OIML/NTEP/Canada     |

## 8.2 Overload

## I. Records Overload

This indicator records the real time overload situation. When loading weight exceeds the overload alarm set value, the background light flashes (if background light is enabled), the panel shows  $\triangle$  (warning), the display flashes, and shows the error message  $\Box \sqcup E \Box$ 

When loading weight exceeds the overload alarm set value, the background light flashes (if background light is enabled), the panel shows (warning signs), the display flashes, shows the error message  $R_L R_r \bar{n}$ , and the buzzer warns intermittently

If, overload weight exceeds the historical maximum overload weight, the historical maximum overload weight will be updated

## II. Clears Overload Records

Press the  $\uparrow$ ,  $\downarrow$  key, and hold for 1 second, indicator pops up the password screen **P00000**.

Press the arrow keys  $\leftarrow$ ,  $\rightarrow$ ,  $\uparrow$ ,  $\downarrow$  Enter the password 80500, then press  $\checkmark$  key. The screen displays **Du [**L**r** and will clear the overload cumulative value.

## 8.3 Modify Password

Press the  $\uparrow$ ,  $\downarrow$  key, and hold for 1 second, indicator pops up the password screen. **P00000** 

Press the arrow keys  $\leftarrow$ ,  $\rightarrow$ ,  $\uparrow$ ,  $\downarrow$  Enter the password 08050, then press  $\lor$  key Display shows the password menu (PWORD). Press  $\downarrow$  to enter.

The first parameter is the user's password (USER P), press  $\checkmark$  to enter, display the current password, for example **354321**. Note that the password is effective only within five- digital, one hundred thousand digits will be discarded. Press  $\checkmark$  key to start modification, press the arrow keys  $\leftarrow$ ,  $\rightarrow$ ,  $\uparrow$ ,  $\downarrow$  enter the new password, press  $\checkmark$  key again to save, press  $\uparrow$  key to return to the previous menu.

# 9. Communication

The 805HP indicator has two ways in communicating to the scale:

# 9.1 RS232 Communication

The indicator has a standard RS-232 serial output interface to connect to large screen monitors, computers or other peripherals. Its effective connection cable length is 15 meters and beyond this length may lead to a high error rate.

To turn on/off serial communication, enter the configuration menu and press  $\rightarrow$  until the indicator shows  $\Box \sqcup \Box$  Press  $\downarrow$  to enter the subment  $\Box \Box \overline{a}$  and select on/off with  $\leftarrow, \rightarrow$ . Press  $\checkmark$  to confirm selection

## I. Serial communication baud rate

Serial communication baud rates 1200bps, 2400bps, 4800bps, 9600bps are available. The baud rate is set in the submenu **b R U d** using  $\leftarrow$ ,  $\rightarrow$ . Press  $\checkmark$  to confirm selection.

# II. Data frame format

Data frame format is set in **b***l* **b** submenu. Press  $\checkmark$  to enter the submenu and use the  $\leftarrow$ ,  $\rightarrow$  to select your desired format. Press  $\checkmark$  to confirm selection. Serial output format can be configured as 8N1 / 8O1 / 8E1. 8N1 means 1 start bit, 8 data bits, 1 stop bit, no parity. 8O1 means 1 start bit, 8 data bits, 1 stop bit, odd parity. 8E1 means 1 start bit, 8 data bits, 1 stop bit, even parity. Indicator outputs data in the form of byte frame. Every byte frame is constituted by eight bytes of data, and all the bytes are ASCII. |=|D0|D1|D2|D3|D4|D5|D7|

Each frame begins with '=' (0x3D).

Each frame contains seven data bytes, including decimal point '.' (0x2E).MSB first, and the LSB follows. If there is a negative sign '-' (0x2D), then it will be transmitted first.

For example, transmit 70.15, that is transmitting | = | | | 7 | 0 | . | 1 | 5 | For example, transmit -32.5, that is transmitting | = | | | - | 3 | 2 | | 5 |.

#### III. Communication mode

Two communication modes can be selected in  $E \subseteq P E$  submenu. Press  $\downarrow$  to enter the submenu and use the  $\leftarrow, \rightarrow$ , to select your desired communication mode. Press  $\nvdash$  to confirm selection.

When the parameter is configured to contin, indicator transmits data in the form of one frame after the other .

When the parameter is configured to reque, if and only if the indicator receives ASCII code '@' character, it will send a data frame.

#### 9.2 Wireless Communication

The indicator can operate at 433Mhz and 915Mhz frequencies. The effective distance between the scale and indicator is maximum of 75 meters.

If you need to change the indicator or wireless transceiver, or because of radio frequency interference, you can configure the communication parameters to re-obtain high-quality communications in the following steps:

Set up a wireless address: The wireless transceiver has its own independent and fixed communication address with codes 0 - 255. The wireless communication works when the address code of the indicator is consistent with the address of the wireless transceiver. Check  $\square \square \square$  parameter values of the  $\square \square \square$  menu and make any necessary changes to match the address code of the wireless transceiver.

**Automatic Channel Search:** After completing the wireless address set up, execute command 5 *E E P*. Indicator will automatically search the wireless transceiver channels from 1- 16. If the channel search is successful, the indicator will display PASS. If the channel search fails, the indicator displays FAIL. Check if the wireless transceiver power supply is normal, if the communication distance is too far, and if radio frequency interference exists.

**Manually switch channels:** When multiple sets of wireless systems are needed in the same location, wireless systems of the same channel may interfere with each other. To avoid this, you need to manually switch channels. Using different channels to distinguish between different wireless systems will ensure high quality wireless communications. To manually change channels, execute command b R n d of the  $r R d l \circ menu$ . Press  $\leftarrow , \rightarrow$  key to choose the designated channel number (1-16), and press  $\checkmark$  key to execute the handover command. If the channel matches successfully, the indicator displays PASS. If the channel fails, the indicator displays FAIL. Switching command is repeatable until channel match is successful

**Set communication power**: To set communication power, execute command **GRI** nof the r AdI o menu. Press  $\leftarrow$ ,  $\rightarrow$  key to and select the power level (1 - 8), press  $\checkmark$  key to perform the set command. When the power settings are successful, the indicator displays PASS. When the power setting fails, the indicator displays FAI L. Switching command can be executed repeatedly until switched successfully

# 10. Calibration and Parameter Settings

The following are the requirements in calibration:

- The scale can only be recalibrated using the 805HP indicator. The scale and indicator shall established a stable communication
- Test Weights
- Make sure Local Gravity is in line with the gravity stored in the indicator, otherwise, change it according to the local gravity value

# 10.1 Weight Calibration

The weight calibration consists of the following steps:

- Zero A/D count
- Weight Calibration.
- Calibrated point A/D count
- Zero offset value ( Zero offset can be re-corrected when using hooks or chains to hang the test weights. )

The following describes calibration procedure for each of the calibration methods:

1) Enter the configuration menu, the indicator shows **USE**, , Remove all loads. If hooks or chains are used to hang the test weights, load the hooks or chains.

2) Press  $\rightarrow$  until the indicator shows  $[\mathcal{L}[\mathcal{R}]\mathcal{L}]$  . Press  $\checkmark$  to move into zero A/D count.

3) The indicator shows  $\begin{bmatrix} \underline{E} & \underline{C} & \underline{C} \\ n & \underline{C$ 

4) The indicator shows  $[L \circ R \circ d]$  | Load test weights, press  $\checkmark$ . The indicator shows the test weight value, e.g.  $[0 \circ 0 \circ 5 \circ 0]$ . Press  $\leftarrow$ ,  $\rightarrow$ ,  $\uparrow$ ,  $\downarrow$  to input the test weight value. Press  $\checkmark$  to save the value and go to the next menu

5) The indicator shows  $[\[ \ R \ L \]]$ . Press  $\checkmark$  to calibrate span. The A/D count for the span calibration is shown, e.g. **BB5920**. Press  $\checkmark$  again to save the calibration value and go to the next menu.

6) When the indicator shows *E R r E*, there are 2 options:
6.1) If no chains or hooks are used to hang the test weights during calibration, remove the test weight and press the start key to finish the calibration and return to weighing mode

6.2) If hooks or chains are used during the calibration, remove these and the test weights. With all weight removed, press  $\checkmark$  to re-zero (this function can be used to remove the tare weight deviation if the hooks or chains are used to hang the test weights). The indicator shows the current A/D count, e.g. 500 187. Press  $\checkmark$  again to finish the calibration and return to weighing

**Suggestion**: When calibration is finished, record the A/D count of zero and span calibration, so that you may re-calibrate your indicator simply by entering the recorded A/D count of zero and span calibration

## 10.2 Digit Calibration

The digit calibration consists of the following steps:

- zero A/D count
- weight Calibration.
- Calibrated point A/D count

The following describes calibration procedure for each of the calibration methods:

1) Enter the configuration menu, the indicator shows U 5 E r

2) Press  $\rightarrow$  until the indicator shows  $\begin{bmatrix} \mathbf{A} & \mathbf{E} \\ \mathbf{A} \end{bmatrix}$ . Press  $\mathbf{a}$  to move into zero A/D count.

3) The indicator shows  $[\exists E \land o]$  Press  $\checkmark$  and the indicator will show  $\bigcirc \bigcirc \bigcirc \bigcirc$  Press  $\leftarrow, \rightarrow, \uparrow, \downarrow$  to input the new zero A/D count. Press  $\checkmark$  again to save and go to the next menu.

4) The indicator show  $[L \circ R d]$  |ess  $\checkmark$  and the indicator will show  $\bigcirc \bigcirc \bigcirc \bigcirc$ Press  $\leftarrow, \rightarrow, \uparrow, \downarrow$  to input the new test weight value. Press  $\checkmark$  to save and go to the next menu.

5) The indicator show:  $[\Box R L]$  Press  $\checkmark$  and the indicator will show  $\Box \Box \Box \Box$ . Press  $\leftarrow, \rightarrow, \uparrow, \downarrow$  to input the new Span A/D count. Press  $\checkmark$  again to save and finish the digit calibration

| PROBLEM           | POSSIBLE CAUSE     | SOLUTION             |
|-------------------|--------------------|----------------------|
| No display in the | Defective battery  | Replace              |
| indicator         |                    |                      |
|                   | Defective button/s | Requires authorized  |
|                   |                    | service              |
|                   | Power button not   | Press and hold       |
|                   | properly pressed   | ON/OFF key for three |

# 11. Troubleshooting Guides

|                          |                         | seconds             |
|--------------------------|-------------------------|---------------------|
| Digits flash (indicator) | Low battery             | Replace battery     |
| Display does not         | Faulty load cell        | Requires authorized |
| respond to load          |                         | service             |
| changes                  |                         |                     |
|                          | Out of calibration      | Re- calibration     |
| Displayed weight         | Scale is not Zeroed     | Press ZERO before   |
| shows large error        | before applying weight  | applying weight     |
|                          | Requires recalibration  | See calibration     |
|                          | Units (Kg/lb) wrong     | See operation       |
|                          | selection               |                     |
| Wireless distance        | Wireless indicator's    | Replace battery.    |
| shortened                | battery is low          |                     |
|                          | Adjust the RF Power     | See operation       |
|                          | output in the indicator |                     |

# 12. Technical Specifications

| Features & Specifications | 805HP-WL (Wireless<br>Indicator)       | 805HP (Wired Indicator) |  |
|---------------------------|--|-------------------------|--|
| Electrical Performance:   |  |                         |  |
| Link Connection/Interface | Within 2.4 Ghz Radio                   | Wired with RS-232       |  |
|                           | Frequency-16 available                 | compatible interface    |  |
|                           | channels to avoid                      |                         |  |
|                           | interference (duplex).                 |                         |  |
| Non-linearity             | ±0.001%F.S. Max                        |                         |  |
| Zero Temp. Drift          | ±10                                    | nV/°C                   |  |
| Max. Capacity Temp. Drift | ±3ppm                                  | n/°C Max                |  |
| Max. Display Resolution   | 1/1                                    | 0,000                   |  |
| Min. Input Sensitivity    | 0.3                                    | μV/e                    |  |
| Input signal range:       | 0mV^                                   | ′±25mV                  |  |
| Load cell Excitation      | 1.22Vdc                                |                         |  |
| Voltage                   |  |                         |  |
| Power Supply              | 3 x AA 1.5V alkaline batteries         |                         |  |
| Power Consumption         | Tested with 2200mAh alkaline batteries |                         |  |
|                           | ≥500 hour with 380Ω loa                | d cell in idle mode     |  |

| ≥250 hour with 380Ω load cell in weighing mod         ≥1000 hour with 1000Ω load cell in weighing mod         ≥350 hour with 1000Ω load cell in weighing mod         Display:         Display       6-digit panoramic FSTN LCD with LED back light         Sampling Frequency       4.17/6.25/8.33/10/12.5/16.7/33.2/50/62/123H         are user-selectable.       Display content         Display content       Display can show a positive or negative numbe         and decimal point can be selected to any positi         Units of Measurement       kg/lb/t/g/oz/klb/N/kN/ are user-selectable uni         Measurements units can be enabled       independently and switched. The default unit of be selected.         Enclosure material       ABS         IP Rating       IP65         Ports       RS-232C (optional)       RS-232C         Functions:       Overload warning and alarm can be enabled or disabled       Overload warning and alarm can be enabled or disabled         Overload protection       User-selectable overload warning value and alar value.       Overload alarm peak records can be reviewed         Functions       2 set-points calibration, Zero scale, Tare, battery warning, Peak-hold.       Date can also be saved after removing batterie         Power-down storage       Date can also be saved after removing batterie       if inactive for a period of time set by user, the apower-saving mode will activate.  |  |  |  |
|--|--|--|--|
| ≥350 hour with 1000Ω load cell in weighing mod         Display:         Display       6-digit panoramic FSTN LCD with LED back light         Sampling Frequency       4.17/6.25/8.33/10/12.5/16.7/33.2/50/62/1234         are user-selectable.       are user-selectable.         Display content       Display can show a positive or negative numbe         and decimal point can be selected to any positivation       Measurements units can be enabled         Units of Measurement       Kg/lb/t/g/oz/klb/N/KN/ are user-selectable unit dependently and switched. The default unit dependently and switched.         Ports       RS-232C (optional)       RS-232C         Functions:       User-selectable overload warning value and alar value.       Overload protection         Overload protection       User-selectable overload warning value and alar value.       Overload alarm peak records can be reviewed         Functions       2 set-points calibration, Zero scale, Tare, battery warning, Peak-hold.       Deverdements         Power-down storage       Date can also be saved after removing batterie power-off.         Date can also be saved after removing batterie power-saving mode will activate.       If inactive for a period of time set by user, the power-saving mode will activate.         Power-saving       If inactive for a period of time set by user, the power-off mod | le   |  |  |
| Display:Display6-digit panoramic FSTN LCD with LED back lightSampling Frequency4.17/6.25/8.33/10/12.5/16.7/33.2/50/62/123H<br>are user-selectable.Display contentDisplay can show a positive or negative numbe<br>and decimal point can be selected to any positiUnits of Measurementkg/lb/t/g/oz/klb/N/kN/ are user-selectable uni<br>Measurements units can be enabled<br>independently and switched. The default unit of<br>be selected.Enclosure materialABSIP RatingIP65PortsRS-232C (optional)Functions:Overload warning and alarm can be enabled or<br>disabled<br>Overload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-savingIf inactive for a period of time set by user, the<br>power-saving mode will activate.Functions :ZeroZeroYesTare In / Tare OutYesHoldYes (with Peak Hold )  |  |  |  |
| Display6-digit panoramic FSTN LCD with LED back lightSampling Frequency4.17/6.25/8.33/10/12.5/16.7/33.2/50/62/123H<br>are user-selectable.Display contentDisplay can show a positive or negative numbe<br>and decimal point can be selected to any positi<br>Kg/lb/t/g/oZ/klb/N/kN/ are user-selectable uni<br>Measurements units can be enabled<br>independently and switched. The default unit of<br>be selected.Enclosure materialABSIP RatingIP65PortsRS-232C (optional)RS-232C (optional)RS-232CFunctions:Overload warning and alarm can be enabled or<br>disabled<br>Overload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after power-off.<br>Date can also be saved after removing batterie<br>power-saving mode will activate.<br>If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesHoldYes (with Peak Hold )   | de   |  |  |
| Sampling Frequency       4.17/6.25/8.33/10/12.5/16.7/33.2/50/62/123H         are user-selectable.       Display content         Display content       Display can show a positive or negative numbe and decimal point can be selected to any positi         Units of Measurement       kg/lb/tg/oz/klb/N/kN/ are user-selectable uni Measurements units can be enabled independently and switched. The default unit or be selected.         Enclosure material       ABS         IP Rating       IP65         Ports       RS-232C (optional)         RS-232C (optional)       RS-232C         Functions:       Overload warning and alarm can be enabled or disabled         Overload protection       User-selectable overload warning value and alarw can be enabled or disabled         Power-down storage       Date can be saved after power-off.         Date can also be saved after removing batterie       power-saving mode will activate.         Power-saving       If inactive for a period of time set by user, the power-off mode will activate.         Functions :       Zero       Yes         Tare In / Tare Out       Yes         Hold       Yes (with Peak Hold )   |  |  |  |
| are user-selectable.Display contentDisplay can show a positive or negative numbe<br>and decimal point can be selected to any positiUnits of Measurementkg/lb/t/g/oz/klb/N/kN/ are user-selectable uni<br>Measurements units can be enabled<br>independently and switched. The default unit of<br>be selected.Enclosure materialABSIP RatingIP65PortsRS-232C (optional)RS-232C (optional)RS-232CFunctions:Overload warning and alarm can be enabled or<br>disabled<br>Overload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageIf inactive for a period of time set by user, the<br>power-saving mode will activate.Power-savingIf inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesHoldYes (with Peak Hold )  | t  |  |  |
| Display contentDisplay can show a positive or negative numbe<br>and decimal point can be selected to any positiUnits of Measurementkg/lb/t/g/oz/klb/N/kN/ are user-selectable uni<br>Measurements units can be enabled<br>independently and switched. The default unit of<br>be selected.Enclosure materialABSIP RatingIP65PortsRS-232C (optional)Functions:User-selectable overload warning value and alar<br>value.<br>Overload protectionOverload protectionUser-selectable overload warning and alarm can be enabled or<br>disabled<br>Overload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageIf inactive for a period of time set by user, the apower-saving mode will activate.<br>If inactive for a period of time set by user, the apower-off mode will activate.Functions :ZeroYesYesHoldYes (with Peak Hold )   | Ηz   |  |  |
| and decimal point can be selected to any posit         Units of Measurement       kg/lb/t/g/oz/klb/N/kN/ are user-selectable uni         Measurements units can be enabled       independently and switched. The default unit of be selected.         Enclosure material       ABS         IP Rating       IP65         Ports       RS-232C (optional)         RS-232C in the enabled or disabled       Noverload warning value and alar value.         Overload protection       User-selectable overload warning value and alar value.         Overload alarm peak records can be reviewed       Overload alarm peak records can be reviewed         Functions       2 set-points calibration, Zero scale, Tare, battery warning, Peak-hold.         Power-down storage       Date can also be saved after power-off.         Date can also be saved after removing batterie       power-saving mode will activate.         If inactive for a period of time set by user, the apower-off mode will activate.       If inactive for a period of time set by user, the apower-off mode will activate.         Functions :       Zero       Yes         Tare In / Tare Out       Yes         Hold       Yes (with Peak Hold )   |  |  |  |
| Units of Measurementkg/lb/t/g/oz/klb/N/kN/ are user-selectable uni<br>Measurements units can be enabled<br>independently and switched. The default unit of<br>be selected.Enclosure materialABSIP RatingIP65PortsRS-232C (optional)Functions:User-selectable overload warning value and alar<br>value.Overload protectionUser-selectable overload warning value and alar<br>value.FunctionsOverload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after power-off.<br>Date can also be saved after removing batteriePower-savingIf inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesTare In / Tare OutYes (with Peak Hold )   | r,   |  |  |
| Measurements units can be enabled<br>independently and switched. The default unit of<br>be selected.Enclosure materialABSIP RatingIP65PortsRS-232C (optional)RS-232CFunctions:User-selectable overload warning value and ala<br>value.<br>Overload protectionUser-selectable overload warning value and ala<br>value.<br>Overload alarm can be enabled or<br>disabled<br>Overload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after removing batterie<br>power-saving mode will activate.<br>If inactive for a period of time set by user, the<br>power-saving mode will activate.<br>If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesHoldYes ( with Peak Hold )  |  |  |  |
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| IP Rating       IP65         Ports       RS-232C (optional)       RS-232C         Functions:       Overload protection       User-selectable overload warning value and alavalue.         Overload protection       User-selectable overload warning and alarm can be enabled or disabled         Overload alarm peak records can be reviewed         Functions       2 set-points calibration, Zero scale, Tare, battery warning, Peak-hold.         Power-down storage       Date can be saved after power-off.         Date can also be saved after removing batterie       Power-saving mode will activate.         If inactive for a period of time set by user, the apower-saving mode will activate.       If inactive for a period of time set by user, the apower-off mode will activate.         Functions :       Zero       Yes         Tare In / Tare Out       Yes (with Peak Hold )   |  |  |  |
| PortsRS-232C (optional)RS-232CFunctions:User-selectable overload warning value and ala<br>value.<br>Overload warning and alarm can be enabled or<br>disabled<br>Overload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after power-off.<br>Date can also be saved after removing batteriePower-savingIf inactive for a period of time set by user, the<br>power-saving mode will activate.<br>If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesTare In / Tare OutYes ( with Peak Hold )  |  |  |  |
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| value.Overload warning and alarm can be enabled or<br>disabledOverload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after power-off.<br>Date can also be saved after removing batteriePower-savingIf inactive for a period of time set by user, the<br>power-saving mode will activate.<br>If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesTare ln / Tare OutYes ( with Peak Hold )  | arm  |  |  |
| Overload warning and alarm can be enabled or<br>disabledFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after power-off.<br>Date can also be saved after removing batteriePower-savingIf inactive for a period of time set by user, the<br>power-saving mode will activate.<br>If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesTare In / Tare OutYes ( with Peak Hold )   |  |  |  |
| disabledOverload alarm peak records can be reviewedFunctions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after power-off.<br>Date can also be saved after removing batteriePower-savingIf inactive for a period of time set by user, the<br>power-saving mode will activate.<br>If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroZeroYesTare ln / Tare OutYes ( with Peak Hold )  |  |  |  |
| Functions2 set-points calibration, Zero scale, Tare,<br>battery warning, Peak-hold.Power-down storageDate can be saved after power-off.<br>Date can also be saved after removing batteriePower-savingIf inactive for a period of time set by user, the<br>power-saving mode will activate.If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroYesTare In / Tare OutYes ( with Peak Hold )   |  |  |  |
| Power-down storage       Date can be saved after power-off.         Date can also be saved after removing batterie         Power-saving       If inactive for a period of time set by user, the a power-saving mode will activate.         If inactive for a period of time set by user, the power-off mode will activate.         Functions :         Zero       Yes         Tare In / Tare Out       Yes ( with Peak Hold )  |  |  |  |
| Power-down storage       Date can be saved after power-off.         Date can also be saved after removing batterie         Power-saving       If inactive for a period of time set by user, the a power-saving mode will activate.         If inactive for a period of time set by user, the power-off mode will activate.         Functions :         Zero       Yes         Tare In / Tare Out       Yes ( with Peak Hold )  | Low  |  |  |
| Date can also be saved after removing batteriePower-savingIf inactive for a period of time set by user, the apower-saving mode will activate.If inactive for a period of time set by user, the power-off mode will activate.Functions :ZeroYesTare In / Tare OutYesHoldYes ( with Peak Hold )  |  |  |  |
| Power-savingIf inactive for a period of time set by user, the a power-saving mode will activate.<br>If inactive for a period of time set by user, the power-off mode will activate.Functions :ZeroYesTare In / Tare OutYesHoldYes ( with Peak Hold )   |  |  |  |
| power-saving mode will activate.If inactive for a period of time set by user, the<br>power-off mode will activate.Functions :ZeroYesTare In / Tare OutYes ( with Peak Hold )   | s.   |  |  |
| If inactive for a period of time set by user, the power-off mode will activate.         Functions :         Zero       Yes         Tare In / Tare Out       Yes         Hold       Yes ( with Peak Hold )  | auto   |  |  |
| power-off mode will activate.       Functions :       Zero     Yes       Tare In / Tare Out     Yes       Hold     Yes ( with Peak Hold )  | power-saving mode will activate.                 |  |  |
| Functions :       Zero     Yes       Tare In / Tare Out     Yes       Hold     Yes ( with Peak Hold )  | auto   |  |  |
| ZeroYesTare In / Tare OutYesHoldYes ( with Peak Hold )   |  |  |  |
| Tare In / Tare Out     Yes       Hold     Yes ( with Peak Hold )   |  |  |  |
| Hold Yes ( with Peak Hold )  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Low Voltage Alarm Yes  | Yes  |  |  |
| Battery Supervision Yes  | Yes  |  |  |
| Overload Alarm / Record 2 Alarm Set Point ( Lower and Higher ) - reco  | 2 Alarm Set Point ( Lower and Higher ) - records |  |  |
| overload   |  |  |  |
| Calibration 2-set-points calibration is required for linear  | ity  |  |  |

20 | ANYLOAD 805HP Handheld Digital Weighing Indicator Operations Manual (V1612)



|                              | correction  |
|------------------------------|---|
| Digital Calibration          | Yes   |
| Unit Switch                  | Kg, g, t, lb, Klb, N, kN, oz, User's defined unit |
| Gravity Acceleration         | Yes   |
| Switch                       |   |
| Tare Set                     | Yes   |
| Total / Delete / Clear Total | Yes   |
| View Total                   | Yes   |
| Resolution Switch            | Yes   |
| Auto-Off Set                 | Yes   |
| Idle Set                     | Yes   |
| Tare Range                   | 100% F.S.   |
| Zero Range                   | 4% F.S.   |
| Operation Temperature        | (-20°C ~50°C) (-4°F~122°F)                        |
| Range                        |   |

# Anyload Transducer Co. Ltd

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