



Technical Manual

TM901
Animal scale

CONTENTS

1. INTRODUCTION.....	2
2. KEYS DESCRIPTION.....	3
3. OPERATION.....	4
1. Power On /Off.....	4
2. Zero.....	4
3. Tare.....	4
4. change Unit.....	4
5. Hold function.....	4
4. LOAD CELL CONNECTION... ..	5
5. PARAMETERS.....	6
6. CALIBRATION.....	7
7. ERROR CODE.....	8





1. INTRODUCTION

- The TM901series animal scale that amplifies signals from a load cell, converts it to digital data and displays it as a mass value.
- It is suitable for general weighing or more specialized applications such as animal weighing.
- Capacity: 150kg/330lb.
- Large LCD with white LED back light displays
- 4keys (mechanical keyboard).

2. KEYS DESCRIPTION

Key Board



Keys	Description
	Power turn ON/OFF
	<ol style="list-style-type: none"> 1. Set to Zero 2. To confirm the selected menu
	<ol style="list-style-type: none"> 1. To perform a tare function, Subtracts weights. 2. Escape from the menu to normal operation.
	<ol style="list-style-type: none"> 1. Hold function 2. change the menu and active digit

3. OPERATION


1. Power On/Off:

Switch on the balance by pressing on/ off key.


The display is switched on and the test is started and if want to switched off, press again the key.



2. Zero

Environmental conditions can lead to small weighing value though there is nothing on the platform. In this case, you can set the display of your



balance to zero by pressing  key, therefore ensure that the weighing starts at zero.

3. Tare

The weight of any container can be tared by pressing  button so that with subsequent weighing the net weight of the object being weighed is always displayed.


- Load weight on the platform.
- Press  key. Zero is displayed, and tare is subtracted.
- Remove weight on the platform. Tared weight is displayed. It can set only one tare value. It will be shown with a minus value.
- Press G/N to change between gross weight and net weight.
- To clear the tare value, remove the load and press  key. Zero is displayed, tare weight is cleared.

4. Change Unit

Press  and  key together, it can change the unit kg/ lb/ oz.

5. Hold function

In case your pet may be very active on the platform, you can use this function to get a precise value relatively.

After your pet is on the platform, press  so HOLD is active now, and "----" will appeared on the display.

"----" will last for about 5 seconds, then indication of calculated HOLD-value with small "HOLD" will show in display.

After unloading the pan , the value will last for another 5 Seconds. After that, it will come out of HOLD function automatically.

You can also press Hold key, while the HOLD-function is active, to exit the HOLD-function.

4. LOAD CELL CONNECTION

7 Pin Air Connector

Pin	Connection
1	Signal-
2	Signal+
3	Shield
4	Excitation-
5	Sense-
6	Sense+
7	Excitation+


5 Pin Air Connector

Pin	Connection
1	Signal-
2	Signal+
3	Shield
4	Excitation-
5	Excitation+

Note: If using 5 wire load cell for 7 Pin Connector, please short-circuit SEN+ to EXC+, and SEN- to EXC-.

5. PARAMETERS

To set parameter, turn on the scale.

- Press  key during the self checking.
- Display will show P1 cnt

Menu	Sub Menu	Description
P1 cnt	12345	To check internal counts
P2 bl	Bl au	Backlight will be on / off automatically
	Bl on	To set always on. After turn on the power, back light also will be on.
	Bl off	To set back light turn off. No back light in the operations
P3 of	Of 0	This function will be disabled
	Of 3	Set to turn off automatically 3 minutes later
	Of 5	Set to turn off automatically 5 minutes later
	Of 10	Set to turn off automatically 10 minutes later
	Of 3 0	Set to turn off automatically 30 minutes later

6. CALIBRATION

To set calibration, turn on the scale.

- Press **TARE** key during the self checking.
- Display will show kg, Press **HOLD** key to change unit(kg or lb),press **ZERO** key to confirm
- Display will show unld
- Remove all the weight from the platform.
- When indicator get stable, press **ZERO** key to confirm.
- Display will show the default calibration weight 100kg or 200lb . If want to change the calibration weight value, press **HOLD** to change it : 50 / 100 /150 kg or 110/220/330 lb. Press **ZERO** to confirm
- Display will show load
- Place the calibration weight on the platform.
- When indicator get stable, press **ZERO** key to confirm.
- Display will show pass and then come to normal weighing mode

7. ERROR CODE

Error Code	Description	POSSIBLE CAUSES
Err 4	Exceed manual zero range	<ul style="list-style-type: none"> · Goods on the platform · Overload, when zeroing the scale. · Improper calibration · Load cell problem · PCB problem
Err 6	A/D Count out of the range	<ul style="list-style-type: none"> · Platform not installed · Load cell problem · PCB problem
Err 19	Exceed Auto Zero range When switch on the scale	<ul style="list-style-type: none"> · Goods on the platform · Improper calibration · Load cell problem · PCB problem