

# **SERVICE MANUAL**

**PT-3020/PT-3010 PRICE TAG (MEDIUM/SMALL)**

**PT-3020/PT-3010**

**Tentative Edition**

## **Table of Content**

i)	Notice .....	1
ii)	Safety Information .....	2
iii)	Safety Regulations .....	2
<b>1.</b>	<b>General.....</b>	<b>4</b>
1.1	Model Specification .....	4
1.2	Operating Specification .....	4
<b>2.</b>	<b>Dimension.....</b>	<b>5</b>
<b>3.</b>	<b>PT-3020/PT3010 Setup Diagram &amp; Spec Setting .....</b>	<b>7</b>
3.1	Overall Layout .....	7
3.2	Display Panel and Indicator Layout.....	8
3.3	Exploded View .....	9
3.4	Replacement of Price Tag Battery .....	10
3.5	Button Cell Specifications.....	11
3.6	ESL Attachment (Refer to ESL Attachment Catalogue).....	11
3.7	Product Handling of Price Tag .....	11
<b>4.</b>	<b>Revision Records.....</b>	<b>12</b>

## **DIGI®**

The material contained in this document is proprietary and for information only and is subject to change without notice. Teraoka Weigh-System assumes no responsibility for any errors or damages arising from misinterpretation of any procedure.

Screen displays, operating procedures and supporting features might vary with different software version releases.

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**Teraoka Weigh-System Pte Ltd  
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#06-01 SIS Building  
Singapore 159088**

**ii) Safety Information**

The operator of the equipment shall comply with the safety and warning indications and procedures outlined in this document. Teraoka Weigh-System Pte Ltd assumes no responsibility or liability for failure to comply with these requirements.

- Repair and servicing of product, shall only be carried out by trained and qualified personnel.

**Disclaimer:**

Specifications are subject to change without notice. All dimensions shown are approximate. Please be aware that Teraoka has indicated that its hardware and software used in the product may require additional updates in the future as our product is continually under development. The need for such updates most likely applies to the Printer software.

**CAUTIONS:**

**FOR PLUGGABLE EQUIPMENT, THAT THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.**

**POUR LE MATÉRIEL RACCORDÉ PAR PRISE DE COURANT, LE SOCLE DE PRISE DE COURANT DOIT ÊTRE  
INSALLÉ À PROXIMITÉ DU MATÉRIEL ET DOIT ÊTRE AISÉMENT ACCESSIBLE.**

**FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.**

**POUR NE PAS COMPROMETTRE LA PROTECTION CONTRE LES RISQUES D'INCENDIE, REMPLACER PAR UN FUSIBLE DE MÊME TYPE ET DE MÊME CARACTÉRISTIQUES NOMINALES.**

**DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS**

**IL Y A DANGER D'EXPLOSION S'IL Y A REMPLACEMENT INCORRECT DE LA BATTERIE. REMPLACER UNIQUEMENT AVEC UNE BATTERIE DU MÊME TYPE OU D'UN TYPE RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU RÉBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.**

**iii) Safety Regulations****Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### IMPORTANT NOTE:

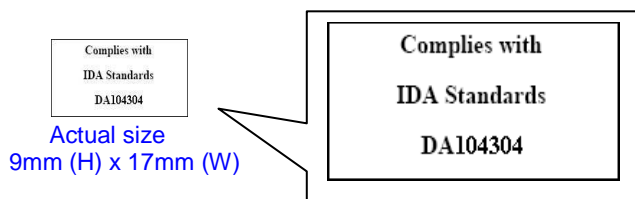
##### FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for a portable uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements:

- 1) Please do not attach any decorative components with metal parts to this equipment.
- 2) The antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

##### IDA Compliance Statement: (Singapore)

This equipment registered to comply with IDA (Info-Communications Development Authority of Singapore) Standard under Dealer's Class License.



##### Industry Canada statement:

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

#### IMPORTANT NOTE:

##### Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

##### NCC Statement

##### Taiwan NCC Statement

- 第十二條
- 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
- 第十四條
- 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

## 1. General

### 1.1 Model Specification

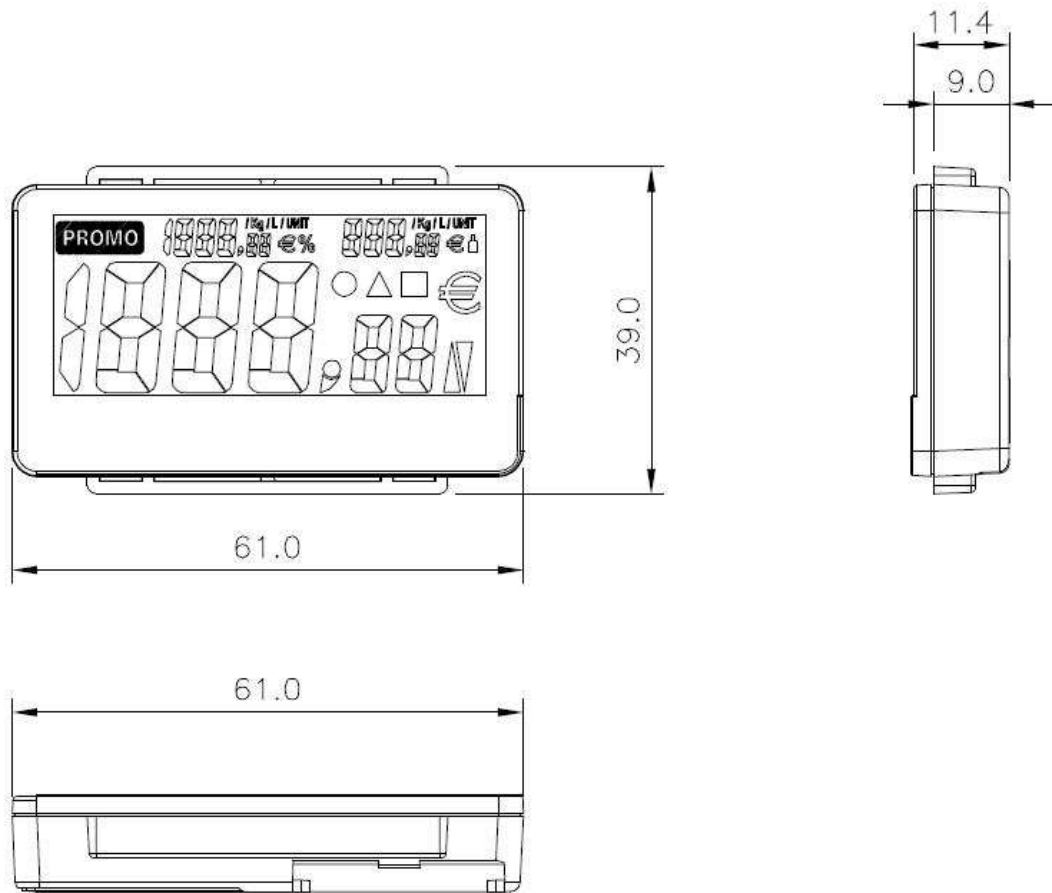
<b>Model</b>	:	PT-3020 (Medium Tag) PT-3010 (Small Tag)																		
<b>Dimensions (in mm)</b>	:	<table> <tr> <td>PT-3020 Medium Type</td><td>-</td><td>61mm(L) x 39mm(H) x 11.4(W)</td></tr> <tr> <td>Display Size</td><td>-</td><td>59.8mm x 33.6mm</td></tr> <tr> <td>LCD Size</td><td>-</td><td>55mm x 27.6mm</td></tr> <tr> <td>PT-3010 Small Type</td><td>-</td><td>49mm(L) x 39mm(H) x 11.4(W)</td></tr> <tr> <td>Display Size</td><td>-</td><td>47.8mm x 33.6mm</td></tr> <tr> <td>LCD Size</td><td>-</td><td>43mm x 27.6mm</td></tr> </table>	PT-3020 Medium Type	-	61mm(L) x 39mm(H) x 11.4(W)	Display Size	-	59.8mm x 33.6mm	LCD Size	-	55mm x 27.6mm	PT-3010 Small Type	-	49mm(L) x 39mm(H) x 11.4(W)	Display Size	-	47.8mm x 33.6mm	LCD Size	-	43mm x 27.6mm
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LCD Size	-	43mm x 27.6mm																		
<b>Weight</b>	:	36g approx. (Medium Tag) 30g approx. (Small Tag)																		
<b>Power Source</b>	:	DC Cell Button Battery 3.0V																		
<b>Operating Temperature</b>	:	-20 °C to +40 °C																		
<b>Humidity</b>	:	85% Max. Non-condensing																		
<b>IP Rating</b>	:	IPX5																		
<b>Battery Specification</b>	:	<table> <tr> <td>Type</td><td>-</td><td>CR2450 (Cell Button Battery)</td></tr> <tr> <td>Nominal Voltage</td><td>-</td><td>3.0V; 30mA</td></tr> <tr> <td>Life Time</td><td>-</td><td>8 years (<i>2 update/day</i>)</td></tr> <tr> <td>Weight</td><td>-</td><td>6.6g approx.</td></tr> </table>	Type	-	CR2450 (Cell Button Battery)	Nominal Voltage	-	3.0V; 30mA	Life Time	-	8 years ( <i>2 update/day</i> )	Weight	-	6.6g approx.						
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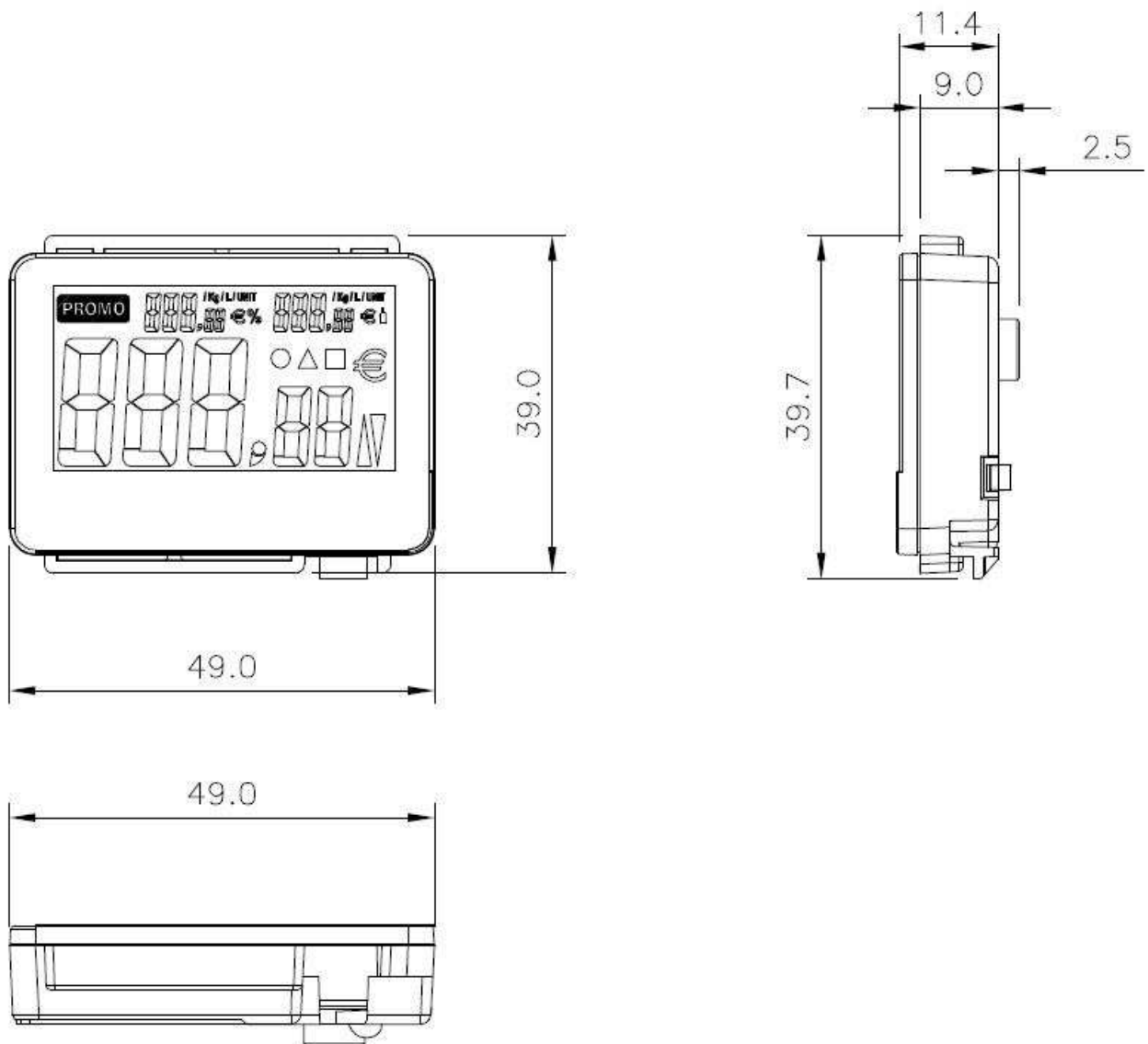
### 1.2 Operating Specification

<b>Power Source</b>	:	External	:	NA
	:	Internal	:	CR2450 (Cell Button Battery)
<b>Operating Temperature</b>	:	-20°C to +40°C		
<b>Humidity</b>	:	85% Max. Non-condensing		

## 2. Dimension

### Medium Price Tag (PT-3020)



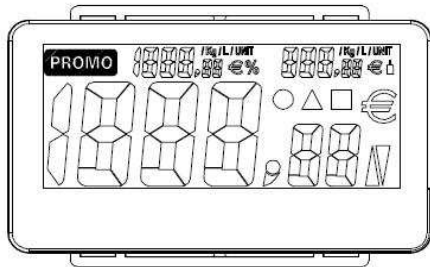
**Small Price Tag (PT-3010)**



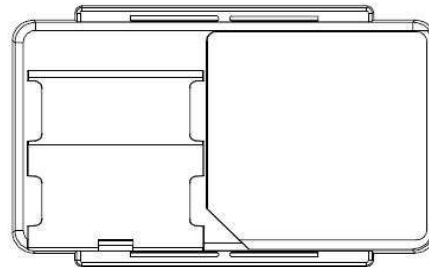
### 3. PT-3020/PT3010 Setup Diagram & Spec Setting

#### 3.1 Overall Layout

##### Medium Tag (PT-3020)

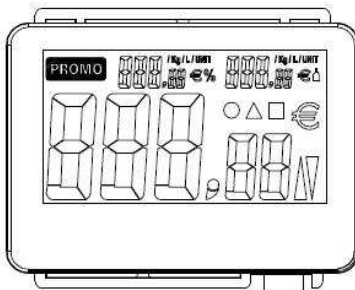


FRONT VIEW

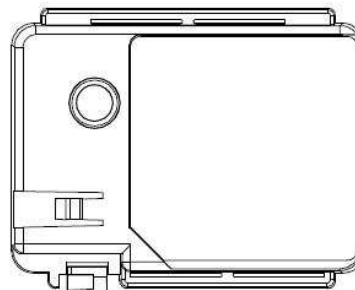


REAR VIEW

##### Small Tag (PT-3010)

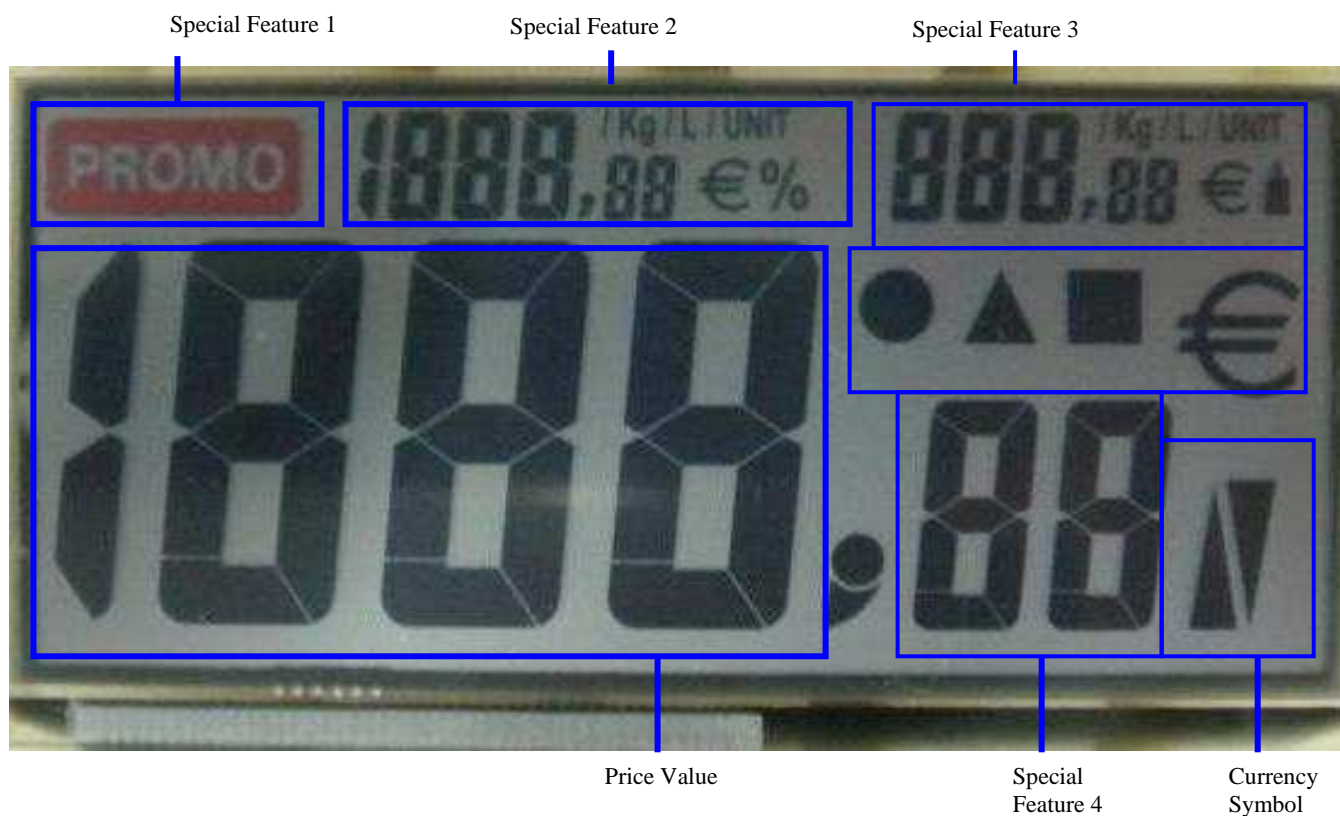


FRONT VIEW



REAR VIEW

### 3.2 Display Panel and Indicator Layout

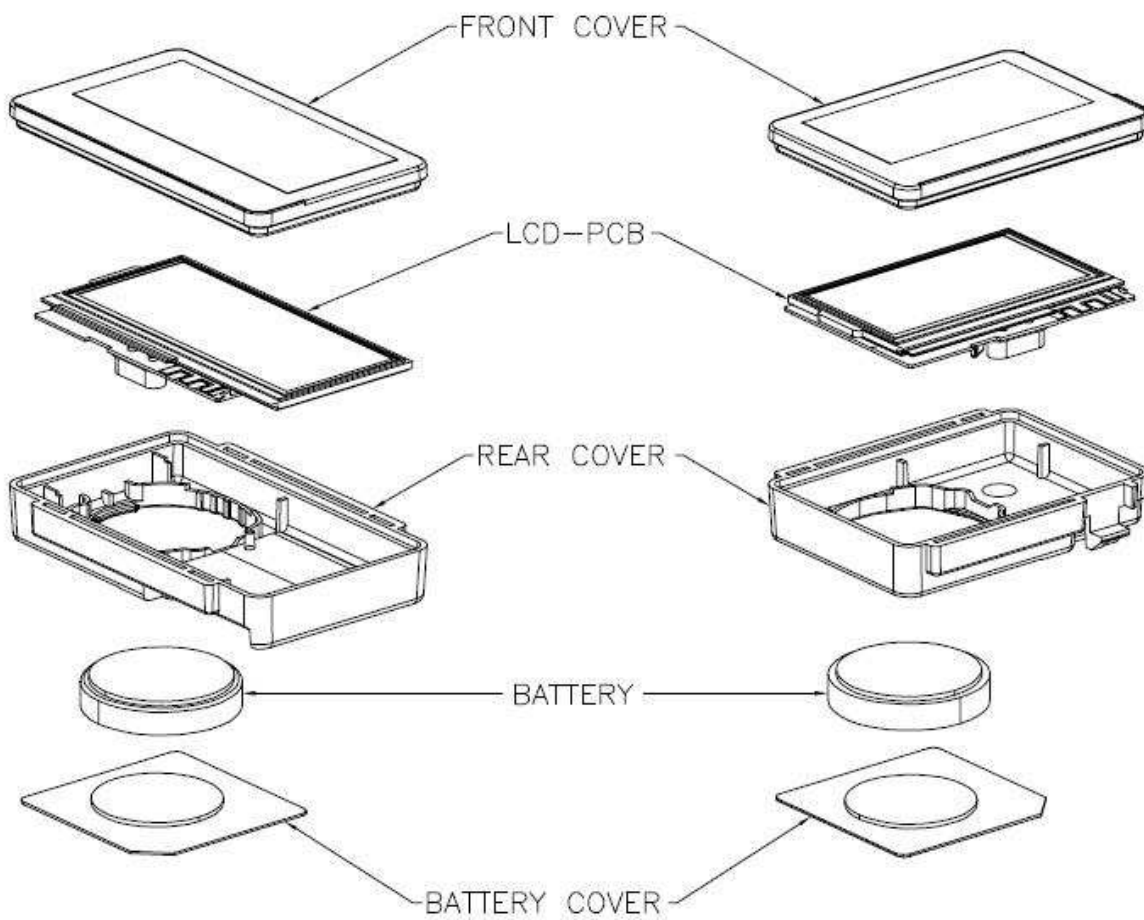


Item	Usage/Function
Currency Symbol	Display currency symbol
Product Position	Arrow to point price tag is for which product (UP or Down)
Special Feature 1, 2, 3 & 4	Feature/option are displayed depend on customer request
Price Value	Display Sell Price

**3.3 Exploded View**

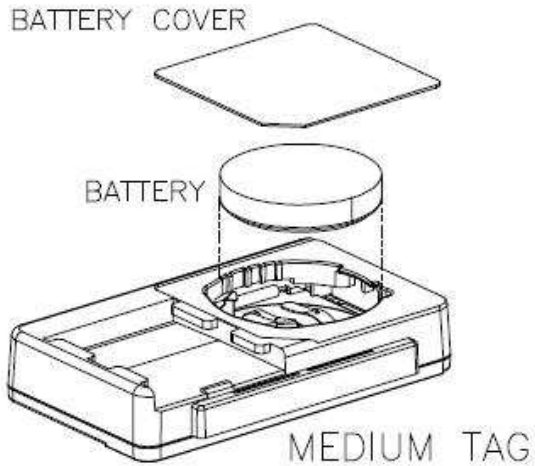
MEDIUM PRICE TAG

SMALL PRICE TAG

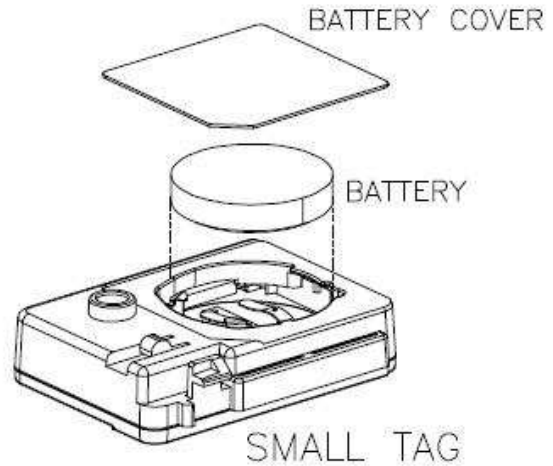
EXPLODED VIEW

### 3.4 Replacement of Price Tag Battery

#### LOCATION OF BATTERY IN MEDIUM PRICE TAG



#### LOCATION OF BATTERY IN SMALL PRICE TAG



### REPLACEMENT OF PRICE TAG BATTERY

- i. Remove the battery cover at the back of Price Tag.
- ii. Replace the new battery. (Ensure the Battery polarity is correct)

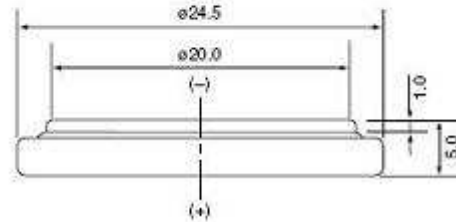


**Caution: Dispose of the Battery according the Safety Guideline.**

- i. Avoid placing the battery in reverse polarity.
- ii. Do not heat or dispose of fire. May burst or release toxic material.
- iii. Do not charge.
- iv. Do not short circuit.
- v. Do not solder the battery directly.

### 3.5 Button Cell Specifications

Model	CR2450	
System	Manganese dioxide–Li/Organic Electrolyte	
Nominal Voltage (V)	3	
Nominal Capacity (mAh)*	610	
Nominal Discharge Current (mA)	0.2	
Temperature Ranges (deg. C)	min.	max.
Operating	–20	+85
Weight (g)**	6.6	
Dimensions (mm)**		
Diameter	24.5	
Height	5.0	
Negative Cap Diameter	20.0	
UL Recognition	MH12568 (N)	



### 3.6 ESL Attachment (Refer to ESL Attachment Catalogue)

For all information about the ESL Various Attachment type, function, installation etc. Please refer to ESL Attachment Catalogue

### 3.7 Product Handling of Price Tag

Handle product with care. Do not expose product to corrosive chemical solution, any organic solvent acidic or alkaline. If cleaning is required, wash only water or mild soap solution.  
Do not attempt to disassemble, apply force or heavy load to the product. No user serviceable parts inside.

12