

# Retail Scale bC:

## be connected be successful

### User Guide



**METTLER TOLEDO**

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# 1. Introduction

## 1.1 EU Declaration of Conformity

**Model / Type:**

**bC-...**

Starting from serial number:

**B 613 270 668**

**Mettler-Toledo (Albstadt) GmbH  
Unter dem Malesfelsen 34  
D-72458 Albstadt, Germany**

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the following documents:

Marking	EU Directive (Official Journal, Year, Volume, Page)	Standard/Norm
CE	Low Voltage Directive 2014/35/EU (OJEU, 2014, L96, p357)	EN 61 010-1
	EMC Directive 2014/30/EU (OJEU, 2014, L96, p79)	EN 61 000-6-1 EN 61 000-6-3
	RoHS Directive 2011/65/EU (OJEU, 2011, L174, p88)	EN50581:2012
CE MXX <sup>(1)</sup> 1259	Non-automatic Weighing Instruments 2014/31/EU (OJEU, 2014, L96, p107)	EN 45 501 T6953
CE!	Radio and Telecommunications Terminal Equipment Directives 1999/5/EG (OJEU, 1999, L91, p10-28)	EN 301 489-1 EN 301 489-17 EN 300 328 EN 60 950-1

(1) XX = Year of affixing CE mark

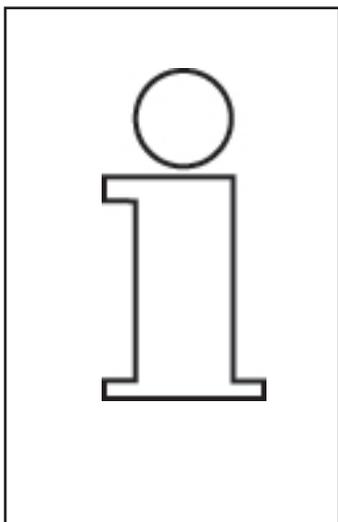
1259 Federal Institute of Metrology, Lindenweg 50, CH-3003 Berne-Wabern,  
Notified Body No. 1259

**Albstadt, April 2016**



**Christoph Dermond**  
Head of SBU  
General Manager  
Mettler-Toledo (Albstadt) GmbH

## 1.2 Calibration Notice



### Important notice for verified weighing instruments in EC-countries

**M**

Weighing Instruments, for which conformity is declared (legal verification), bear the preceding mark on the packing label...



and the metrology marking on the descriptive plate. They may be put into use immediately.

**M**

Weighing Instruments on which declaration of conformity is carried out in two steps have no metrology marking on the descriptive plate and bear the preceding identification mark on the packing label. The second step has to be carried out by the authorized Mettler-Toledo service engineer. Please contact your Mettler-Toledo service organization.

The first step of the declaration of conformity has been carried out at the manufacturing plant. It comprises of all tests according to EN 45501-8.3.3. If national regulations in individual countries limit the period of validity of the verification, then the users of such a weighing instrument are themselves responsible for its timely re-verification.

### 1.3 Safety Precautions



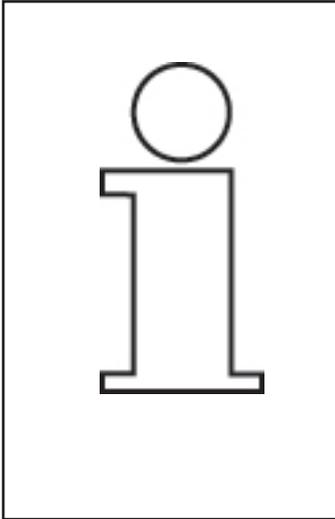
- ⚠ Do not operate the scale in environments containing explosive mixtures of gases, vapours or powders! Any electrical device that does not include a specific ignition protection category for a potentially explosive area, presents a substantial safety risk in that area.
- ⚠ To prevent accidents, the scale should only be opened by trained customer service personnel!
- ⚠ **WARNING**  
**IMPROPER EXCHANGE OF THE BATTERY COULD CAUSE AN EXPLOSION. DISPOSE OF USED BATTERIES ACCORDING TO THEIR INSTRUCTIONS.**
- ⚠ Use only the included power supply with integrated earth conductor.
- ⚠ The power socket must be freely accessible.

⚠ **IF THE DEVICE IS NOT USED EXACTLY AS SHOWN IN THIS MANUAL; THE DESIGNATED PROTECTION CAN BE AFFECTED.**

⚠ **CAUTION**  
Use only genuine METTLER TOLEDO accessories and cable assemblies with this product. Use of unauthorized or counterfeit accessories or cable assemblies may result in voided warranty, improper or erroneous operation, or damage to property (including the unit) and **personal injury**.

⚠ **WARNING**  
Use only genuine METTLER TOLEDO replacement battery packs and rechargers as listed in the applicable User's Manual. Use of anything other than genuine METTLER TOLEDO battery packs or chargers may cause fire or explosion resulting in **serious personal injury up to and including death** or property damage. Batteries must be disposed of properly in accordance with local environmental and any other applicable regulatory requirements. Do not discard in normal domestic waste.

## 1.4 Installation



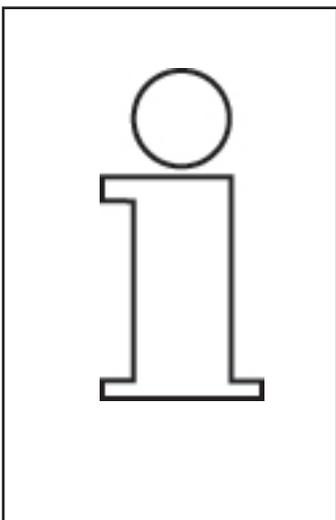
Your scale will usually be part of a networked system. It will be installed, levelled and put into operation either by METTLER TOLEDO or one of our authorized dealers. During the installation, you will receive comprehensive training and all of the associated documentation. Only connect your scale to the mains using the supplied power cable.

To check the levelling of your scale, use the spirit level attached to the display stand. Check the spirit level at regular intervals to ensure the scale is level. After changing the location of your scale, check the spirit level and re-level using the adjustable feet if necessary.



⚠ THE DEVICE MUST BE CONNECTED TO A POWER SOCKET WITH CORRECT VOLTAGE CONNECTION AND PROTECTIVE CONDUCTOR TERMINAL.

## 1.5 Zeroing Feature and Zeroing the Scale



The scale has an automatic zeroing feature, i.e. it automatically compensates for small variations in weight (e.g. due to fatty residues on the weighing platter).

The zeroing feature is not operational if a packaging weight has been tared.

After the removal of dirt or residue, with the scale switched on, the display can either show

- a negative value,
- or segments „\_ \_ \_ \_ \_“.

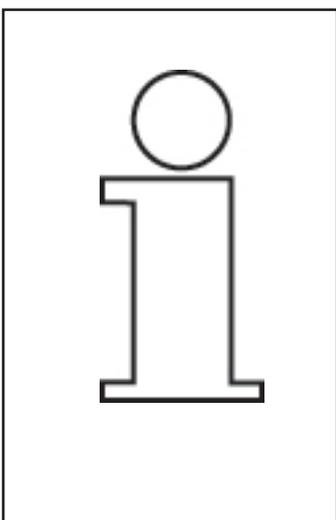
Remedy:

- Press 2x [ C ].

If the error message occurs again:

- Switch the power switch off and then back on again.

## 1.6 Information on Thermal Paper and Thermal Labels



The printer used in bC retail scales is a thermal printer. Only use thermal paper and thermal label paper in this printer. METTLER TOLEDO has tested both paper types over a long-term before deciding to use them. The paper has also been approved for use in bC retail scales by the weights and measures authority.

Using thermal paper or thermal label paper other than that mentioned above could reduce the print quality and the service life of the printhead. In such cases, we accept no guarantee for the thermal printer.

## 2. Servicing the Counter-, Compact, Self-Serve and Hanging Scales



Always unplug the scale from the mains before working on it.

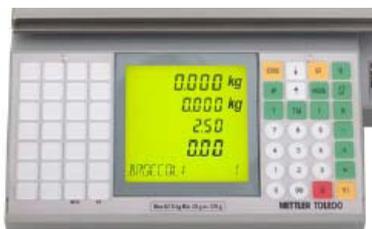
### 2.1 Cleaning



- Switch off the scale and unplug it from the mains.
- Clean the scale with a slightly damp cloth (not wet).
- Remove the three overlays from the scale and clean them.
- Replace the overlays when dry.
- Plug the scale back into the mains and switch it back on.



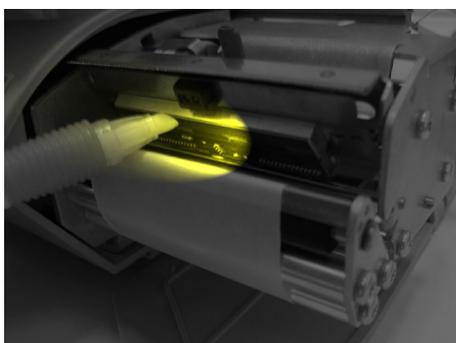
Do not use a strong solvent to clean the scale, but instead use a commercial cleaning agent.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
166	167	168	169	170	171	172	173	174	175	176	177	178	179	180



### 2.2 Cleaning the Printhead

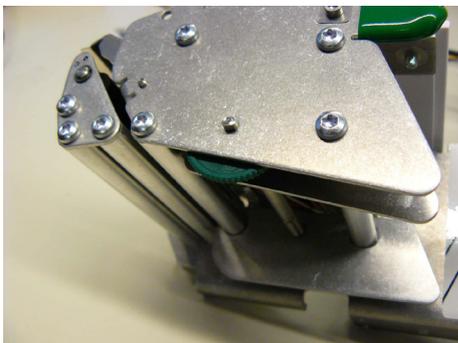


- Switch off the scale and unplug it from the mains.
- Open the doors.
- Pull the green handle out as far as possible and remove the printer from its housing.
- Press the release lever **downwards**. The printhead folds out upwards.
- Remove the cap from the cleaning pen.
- Clean the front of the printhead with the moist tip of the pen.
- Press the printhead **downwards** until it locks in place again.
- Using the green handle, slide the printer back into its housing.
- Close the doors.
- Replace the cap on the cleaning pen.
- Plug the scale back into the mains and switch it on.



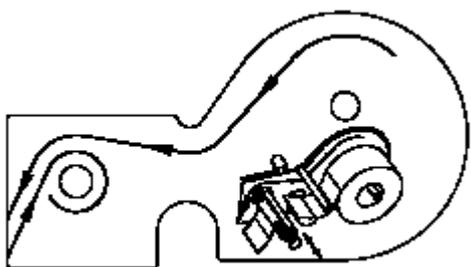
Only use the enclosed cleaning pen to clean the printhead. Attempting to clean the printhead with other objects will damage it.

## 2.3 Paper Width Adjustment



- Open the printer doors.
- Pull the green handle out as far as possible and remove the printer from its housing.
- Insert the receipt or label roll.
- Using the green knob, adjust the paper guide to the corresponding paper width.
- Proceed to 2.4 or 2.5.

## 2.4 Inserting the Receipt Roll

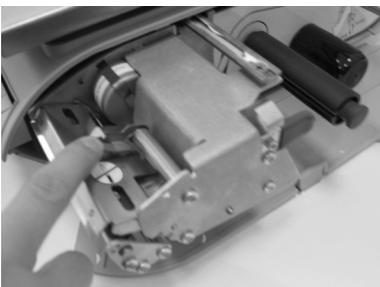


- Open the doors.
- Pull the green handle out as far as possible and remove the printer from its housing.
- Remove the empty sleeve from the used roll.
- Press the release lever **downwards**. The printhead folds out upwards.
- Insert the new label roll according to the adjacent diagram.
- The paper start is on the left side
- Pull the thermal paper forwards until it becomes taut.
- Press the printhead **downwards** until it locks in place again.
- Tear off the excess paper.
- Using the green handle, slide the printer back into its housing.
- Close the doors.

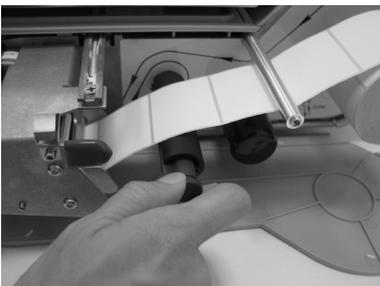
## 2.5 Inserting the Label Roll



- Open the printer doors.
- Pull the green handle out as far as possible and remove the printer from its housing.



- Press the release lever **downwards**.



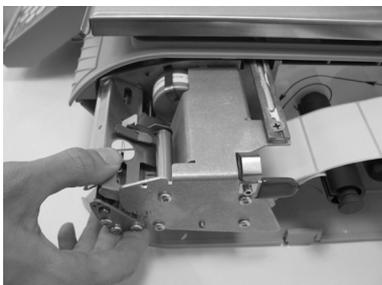
- Insert the new label roll according to the diagram.
- Pull the takeup spindle forwards.



- Insert the liner paper into the takeup spindle.



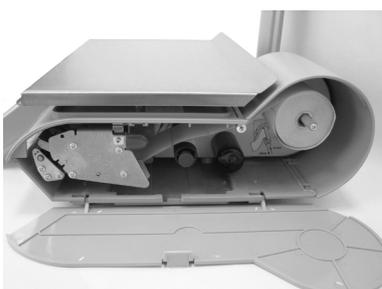
- Push the takeup spindle back in.



- Press the printhead downwards.



- Rotate the takeup spindle to the right, until the paper becomes taut.



- Slide the printer back in.
- Close the doors.
- Press the paper feed button  .

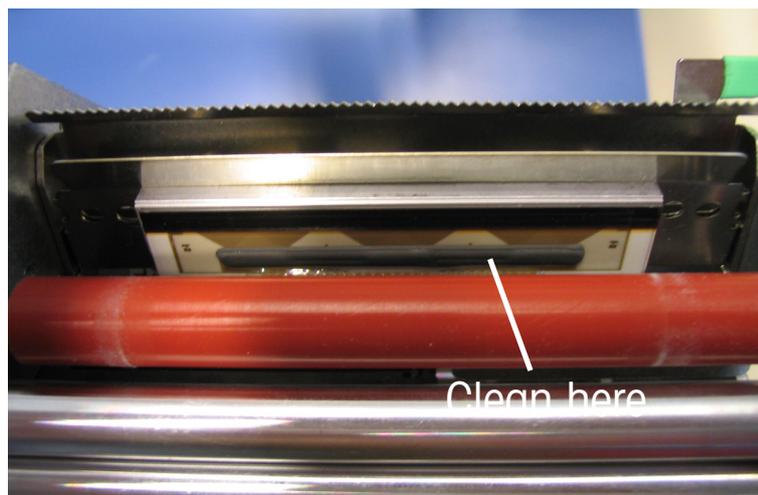


**Always unplug the scale from the mains before working on it.**

## 2.6 Servicing the Linerless Printer

### Cleaning the Printhead

- Switch off the scale and unplug it from the mains.
- Open the doors.
- Pull the green handle out as far as possible and remove the printer from its housing.
- Press the release lever **downwards**.  
The printhead folds out upwards.
- Remove the cap from the cleaning pen.
- Clean the front of the printhead with the moist tip of the pen.
- Press the printhead **downwards** until it locks in place again.
- Using the green handle, slide the printer back into its housing.
- Close the doors.
- Replace the cap on the cleaning pen.
- Plug the scale back into the mains and switch it back on.

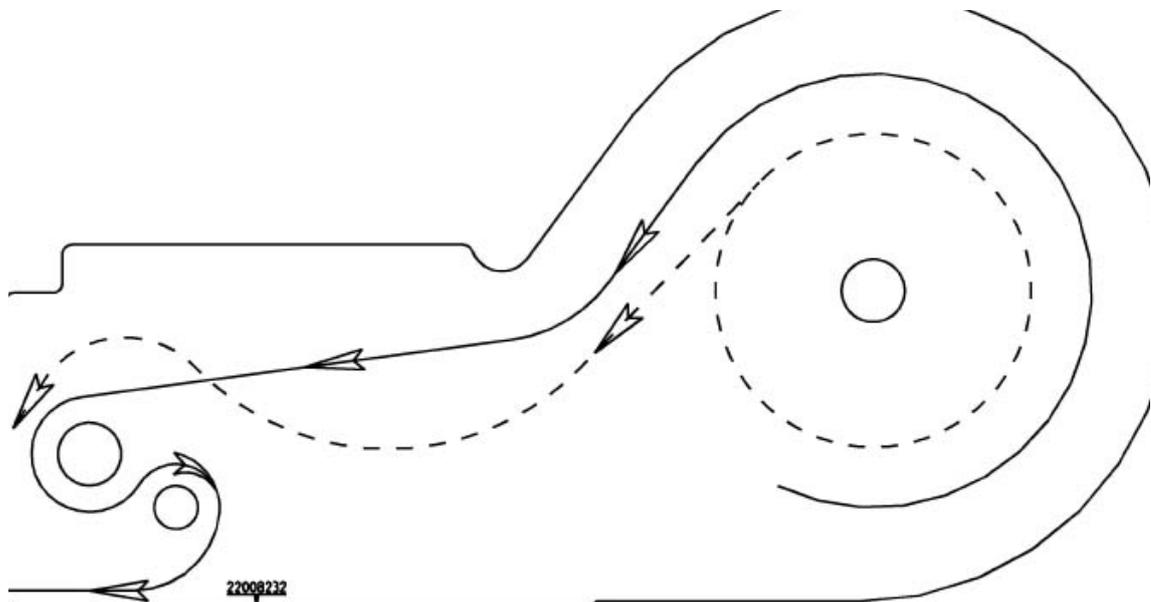


Only use the enclosed cleaning pen to clean the printhead.

Attempting to clean the printhead with other objects will damage it.

## Inserting the linerless paper roll

- Switch off the scale and unplug it from the mains.
- Open the doors.
- Pull the green handle out as far as possible and remove the printer from its housing.
- Remove the empty sleeve from the used roll.
- Press the release lever **downwards**.  
The printhead folds out upwards.
- Insert the new receipt roll, as shown in the sketch below.
- The paper start is on the left side
- Pull the thermal paper forwards until it becomes taut.
- Press the printhead **downwards** until it locks in place again.
- Using the green handle, slide the printer back into its housing.
- Tear off the excess paper.
- Close the doors.



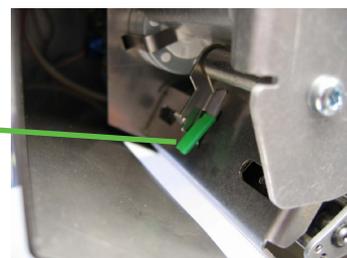


**Always unplug the scale from the mains before working on it**

## 2.7 Servicing the Hanging Scale

### Cleaning the Printhead

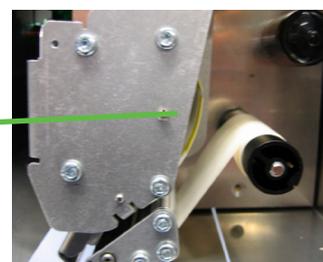
- Switch off the scale and unplug it from the mains.
- Open the doors.
- Press the green release lever downwards.  
The printhead folds out upwards.
- Remove the cap from the cleaning pen.
- Clean the front of the printhead with the moist tip of the pen.
- Press the printhead downwards until it locks in place again.
- Replace the cap on the cleaning pen.
- Plug the scale back into the mains and switch it on.



Only use the enclosed cleaning pen to clean the printhead..  
Attempting to clean the printhead with other objects will damage it.

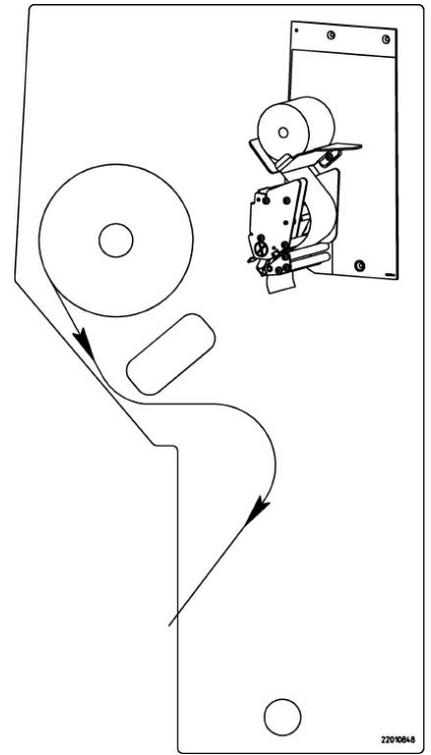
### Setting the Paper Width

- You can adjust the width of the paper guide by using the green knob.



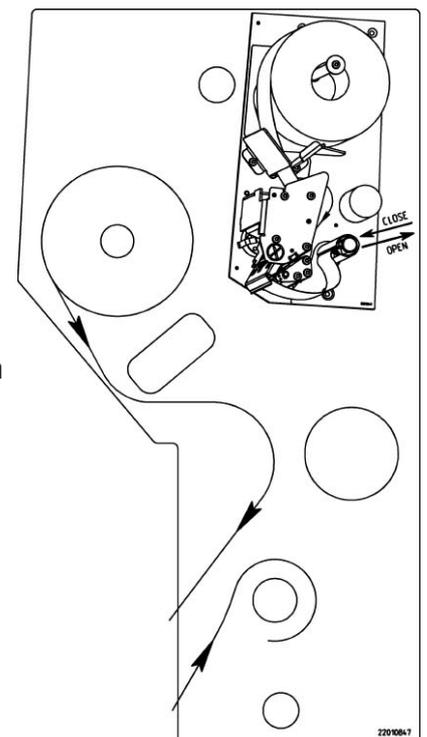
## Inserting the Receipt Roll

- Remove the empty sleeve from the used roll.
- Press the green release lever downwards.  
The printhead folds out upwards.
- Insert the new label roll according to the adjacent diagram.
- The paper start is on the left side of the receipt roll.
- Pull the thermal paper forwards until it becomes taut.
- Press the printhead downwards until it locks in place again.
- Tear off the excess paper.



## Inserting the label roll

- Remove the empty sleeve from the used roll.
- Press the green release lever downwards.  
The printhead folds out upwards.
- Pull out the green take up spindle and remove the liner paper.
- Insert the new label roll as shown in the adjacent diagram.
- The paper start is on the left side of the label roll.
- Insert the liner paper into the takeup spindle and push the green spindle back in place.
- Press the printhead downwards until it locks in place again.
- Press the paper feed button .





Always unplug the scale from the mains before working on it.

## 2.8 Servicing the Counter Scale with Double Printer

### Cleaning the Printhead

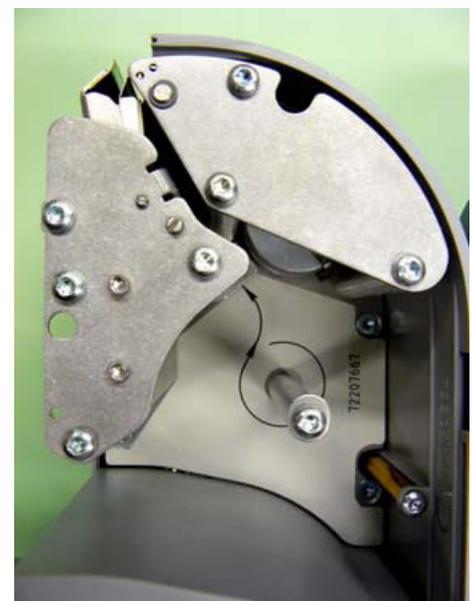
- Switch off the scale and unplug it from the mains.
- Open the doors.
- Press the green release lever backwards. The printhead folds out forwards.
- Remove the cap from the cleaning pen.
- Clean the front of the printhead with the moist tip of the pen.
- Press the printhead backwards until it locks in place again.
- Replace the cap on the cleaning pen.
- Plug the scale back into the mains and switch it on.



Only use the enclosed cleaning pen to clean the printhead. Attempting to clean the printhead with other objects will damage it.

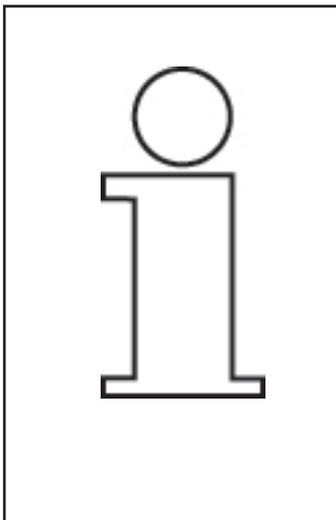
### Inserting the Receipt Roll

- Remove the empty sleeve from the used roll.
- Press the green release lever backwards. The printhead folds out forwards.
- Insert the new label roll according to the adjacent diagram.
- The paper start is on the left side of the receipt roll.
- Pull the thermal paper forwards until it becomes taut.
- Press the printhead backwards until it locks in place again.
- Tear off the excess paper.



## 3. Technical Specification

### 3.1 Technical Specification



- Nominal voltage  
100VAC (-10%) ... 240VAC (+10%); 50/60Hz; 0,5A.
- Fuse T6,3A/250V internal
- Temperature range -10°... +40°C.
- Max. relative air humidity of 80% for temperatures up to 31°C, decreasing linearly to 50% relative air humidity at 40°C, non condensing.
- Degree of pollution: 2.
- Over voltage predicament II.
- Usable altitude up to 2000m
- Weight 10kg.

## 4. Disposal

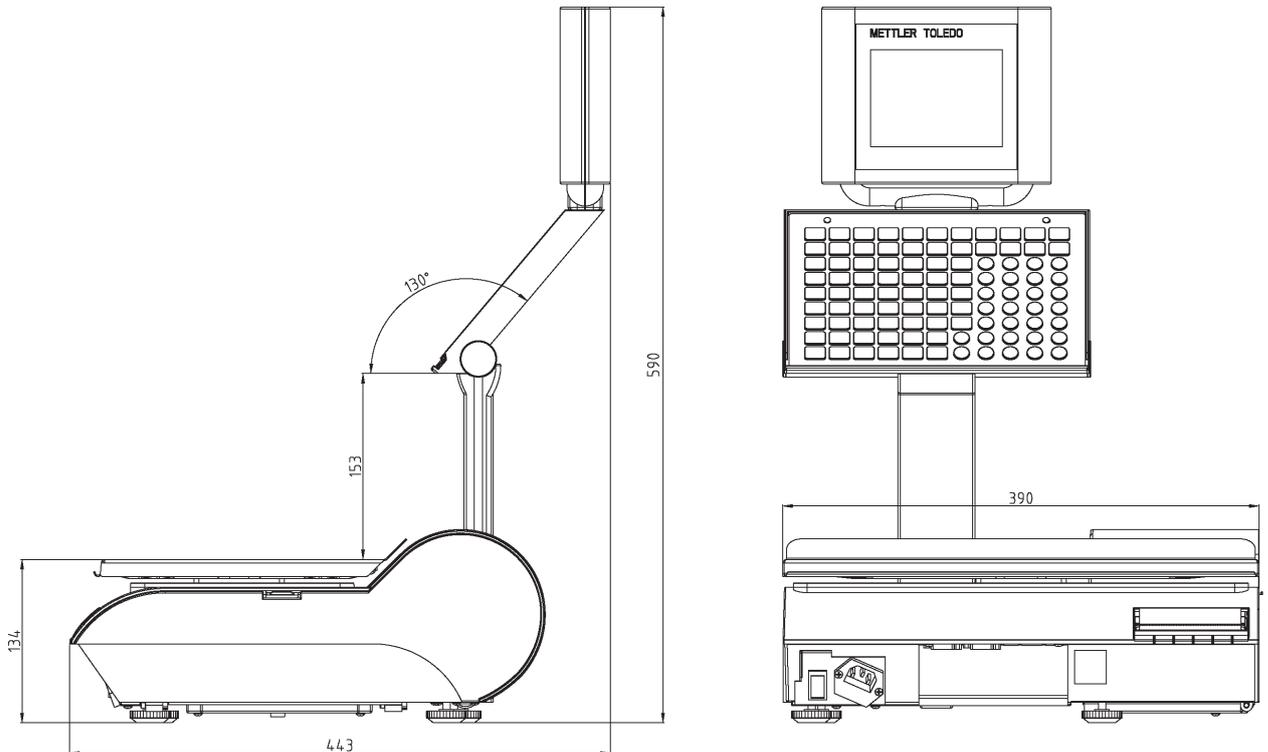
### 4.1 Disposal



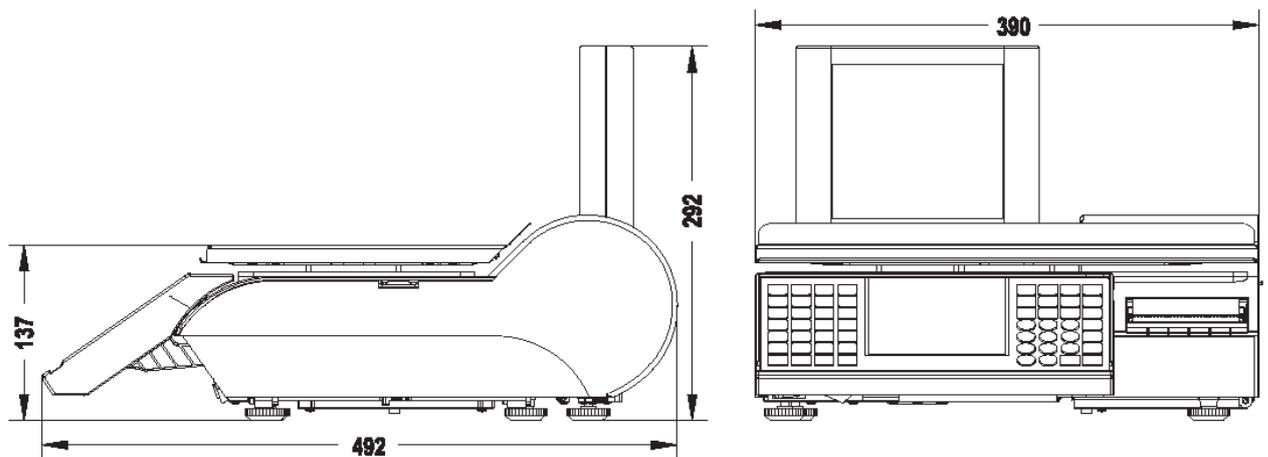
In accordance with the requirements of the European directive 2002/96/EC on waste electrical and electronic equipment (WEEE), this scale should not be discarded together with common domestic waste. This also applies to countries outside the EU where corresponding national regulations come into effect. Please dispose of this product in accordance with local regulations, by depositing it in a separate collection of electrical and electronic equipment. If you have any queries concerning the disposal of this scale, please contact the relevant authorities or the dealer from where the scale was obtained. In the event of this scale being transferred to a third party (e.g. for further private or commercial use), this disposal instruction is to be included with the scale. Thank you for contributing to the protection of our environment.

# 5. Dimensions

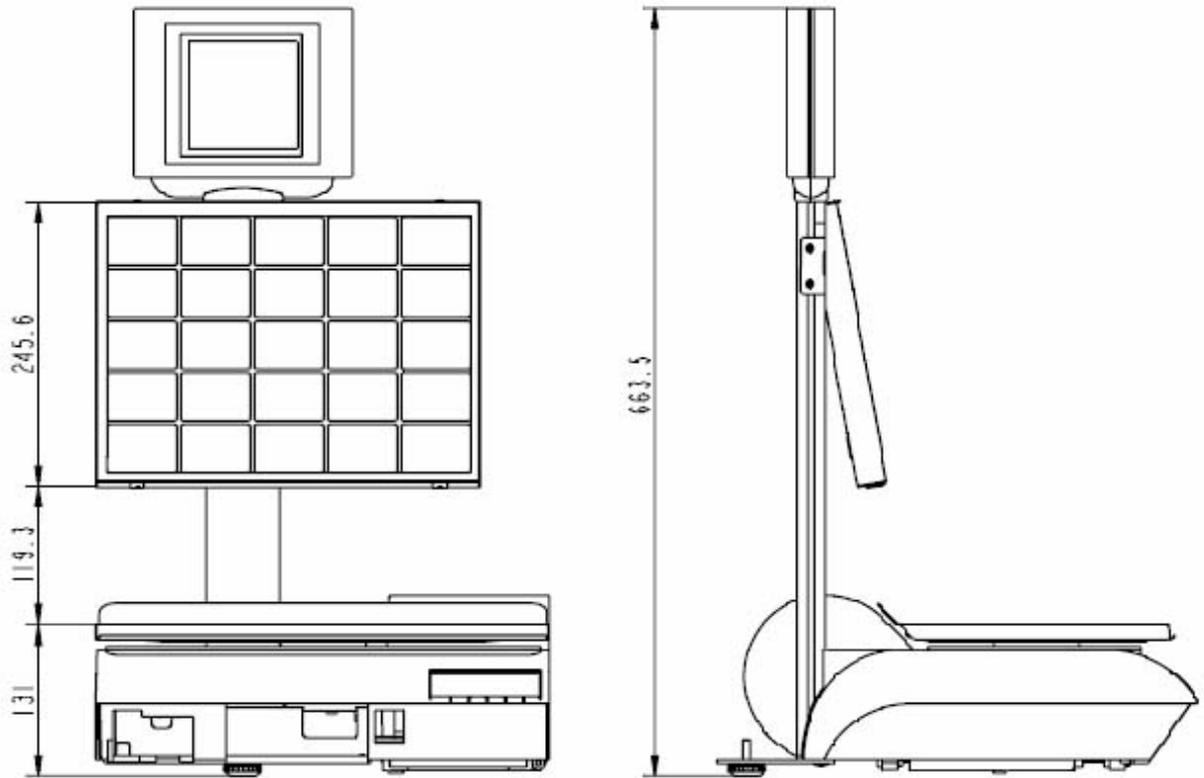
## 5.1 bC-U2 Counter Scale



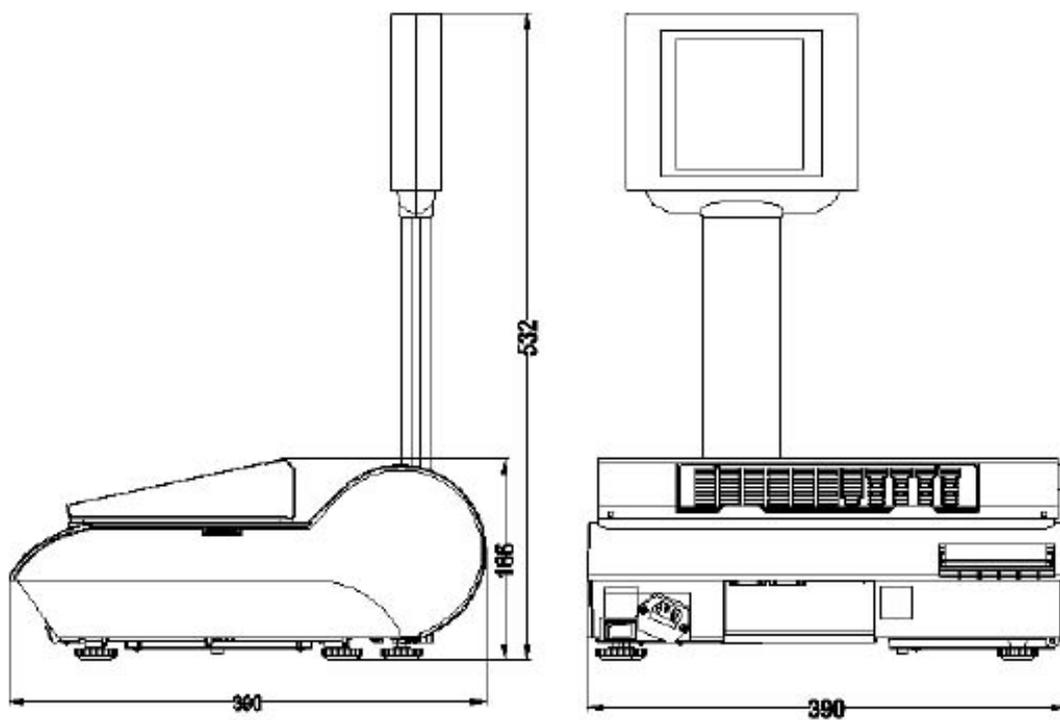
## 5.2 bC-C2 Compact Scale



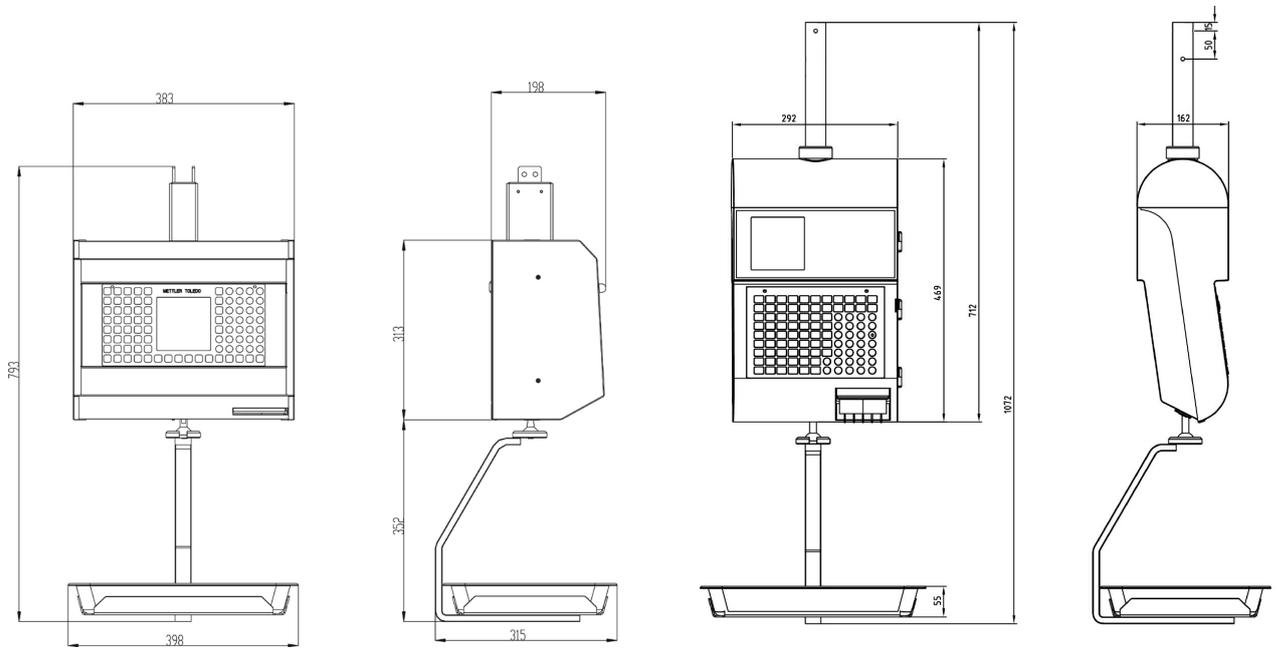
### 5.3 bC-U3 and bC-U4 Self-Serve Scales



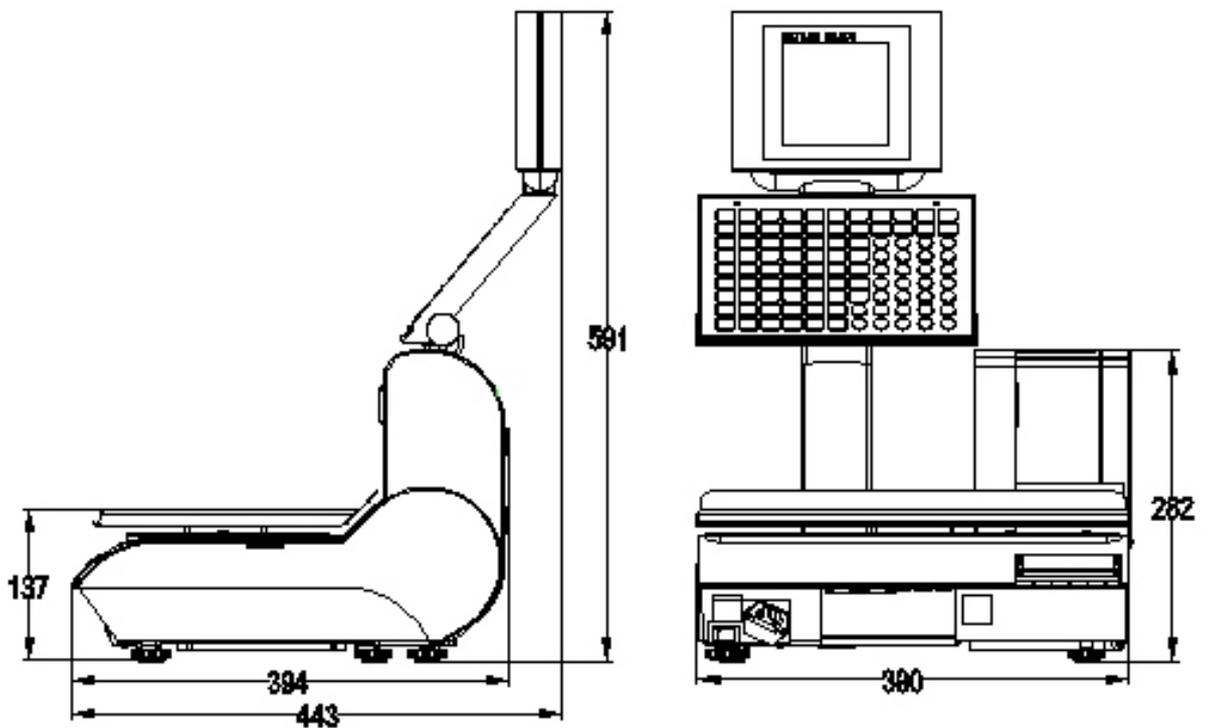
### 5.4 bC-R2 Terminal



### 5.5 bC-H2, bC-H22 and bC-HR2 Hanging Scales and Hanging Terminal



### 5.6 bC-U2 Counter Scale with Double Printer



**For your notes**

**For your notes**

**For your notes**

**Give your METTLER TOLEDO product a brighter future:  
METTLER TOLEDO service is able to ensure your METTLER TOLEDO  
product provides years of trouble free service and high accuracy  
measurement while maintaining its value.  
Please ask your local METTLER TOLEDO dealer for more details on  
this attractive service offer.**

Mettler Toledo reserves the right to make  
technical modifications and modifications to items  
provided.

Printed on 100 % chlorine free manufactured paper  
for the sake of our environment.

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- CH**      **Mettler-Toledo (Schweiz) AG**, Im Langacher, 8606 Greifensee,  
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