

# CERTIFIKAT

No. 45 97 01



## CERTIFICATE OF EC TYPE EXAMINATION

TELTEK Cxx

**Issued to**

Teltek i Örebro AB, Filarevägen 3, 703 75 Örebro, Sweden.

**In respect of**

An electronic automatic checkweigher and/or weigh price labeller.

**In accordance with**

The Swedish Act on Metrology and Verification STAFS 2006:4 and STAFS 2006:10 dated 2006-08-21, transposing Directive 2004/22/EC on measuring instruments (MID).

**Applicable essential requirements**

- Annex 1
- Annex MI-006, AUTOMATIC WEIGHING INSTRUMENTS

**Harmonised standards and normative documents used**

- OIML R51, edition 2006, Automatic catchweighing instruments

**Further applied documents**

- WELMEC 2.6, Guide for the testing of automatic catchweighing instruments (Issue 2)
- WELMEC 7.2, Software Guide (Issue 1)

**Rated operating conditions**

<b>Measurand:</b>	g (weight of packages)	<b>Mechanic influence class:</b>	M1
<b>Accuracy class:</b>	XIII(1), Y(a)	<b>Climatic influence class:</b>	+5 to +40°C
<b>Measurement range:</b>	15-60000	<b>Electromagnetic influence class:</b>	E1, E2

The weighing instrument may be of either single or multi-interval type.

**Valid until**

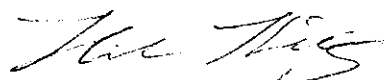
15<sup>th</sup> December, 2016.

*The principal characteristics, approval conditions are set out in the appendix hereto, which forms part of the approval documents and consists of 4 pages. All the plans, schematic diagrams and documentations are recorded under reference files MTmP604914 and MTmP502257.*

Borås 15<sup>th</sup> December 2006

**SP Swedish National Testing and Research Institute  
Certification**

  
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EC Type Examination Certificate issued by Notified Body No. 0402

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The instruments / measuring systems must correspond with the following specifications:

## 1 Design of the instrument

### 1.1 Construction

The instrument is designed to weigh packs dynamically. It comprises a self-indicating and price computing weighing machine with associated label printer and mechanical handling facilities.

Via the infeed conveyor the product to be weighed is transported to the weighing unit. The product is, after the weighing, transported via the outfeed conveyor either to the labeller or to the sorting device.

Operating modes: weigh price labeller, checkweigher or both.

### 1.2 Measurand sensor

The weighing conveyor consists of a conveyor carried by a Teda Huntleigh or a Flintec PCB load cell.

Class	Load cell and capacity	e (g) ≥	Min (g) ≥	Max (g) ≤
C3	Huntleigh 1010, 5kg	0,1	15	600
C6	Huntleigh 1130, 7 kg	0,2/0,5	20	1200/3000
C6	Huntleigh 1130, 20 kg	0,5/1,0	35	3000/6000
C3	Flintec PCB 50 kg	1,0/2,0	125	6000/12000
C3	Flintec PCB, 100 kg	2,0/5,0	350	12000/30000
C3	Flintec PCB, 250 kg	5,0/10,0	1750	30000/60000

### 1.3 Measurand processing

#### Hardware

The weighing instrument consists of a load cell, conveyor system, indicating and control electronics. A photocell is placed immediately before the weighing conveyor. A Teda Huntleigh, or a Flintec PCB strain gauge load cell carries the weighing conveyor.

#### Software

The validation of software was based on the essential requirements given in MID and WELMEC Guide 7.2. A report with number MTmp502257A-01, dated 2006-11-15 was issued and is held by SP.

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#### 1.4 Indication of the measurement results

To the control electronic unit it is possible to use different displays and interfaces.

Type	Display/Interface
C15	RS232 (only interface)
C20	LED display
C60	TFT display
C80	Windows embedded PC

All members of the Teltek Cxx family share the same design and software. The control unit consists of a digital data processing unit.

#### 1.5 Optional equipment and functions subject to MID requirements

- initial zero setting
- automatic zero setting
- semi automatic zero setting, static mode only
- automatic zero tracking, static mode only
- preset tare
- dynamic setting function, only adjustable during set up
- belt speed setting

#### 1.6 Technical documentation

The operating manual includes technical specifications and for example how to get access to the checksum. Dynamic settings is protected by a password not available to the user.

#### 1.7 Integrated equipment and functions not subject to MID

See operating manual.

## 2 Technical data

### 2.1 Rated operating conditions

#### Measurand

Solid packages within the measuring range, weight expressed in g.

#### Measurement range

Maximum capacity,	Max $\leq$ 60 000 g
Minimum capacity,	Min $\geq$ 15 g
Verification scale interval, class XIII(1)	$e \geq$ 0,1 g
Number of verification scale intervals, class XIII(1)	$n \leq$ 6000
Verification scale interval, class Y(a)	$e \geq$ 1 g
Number of verification scale intervals, class Y(a),	$n \leq$ 3000
Maximum belt speed,	$\leq$ 75 m/min

#### Accuracy class


XIII(1), Y(a)

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**Environments / influence quantities**

Climatic: +5 to +40°C  
Mechanic: class M1  
Electromagnetic: class E1, E2

**Durability period under rated operating conditions estimated by the manufacturer**  
Durability period estimated to twelve months.

**2.2 Other operating conditions**

Not applicable.

**3 Interfaces and compatibility conditions**

The instrument may use the following protective interfaces for data communication:

- centronics parallel
- RS232
- RS485
- current loop, 20 mA (can bus, profibus)
- ethernet
- USB

**4 Requirements on production, putting into use and utilisation**

**4.1 Requirements on production**

No special requirements identified.

**4.2 Requirements on putting into use**

Verification at the place of use is required.

**4.3 Requirements for consistent utilisations**

No special requirements identified.

**5 Control of the measuring tasks of the instrument in use**

No special measuring tasks are identified.

**6 Security measures**

**6.1 Sealing**

**Interfaces**

No sealing of interfaces is necessary.

**Indicator**

If the catchweigher is equipped with a disk station then the disk station shall be sealed with a control mark preventing changing of diskettes.

On the control board (measurement computer) the dipswitch, S2, shall be sealed with a control mark preventing switching of the button.

The checksum shall be checked and noted.

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### Load cell

The screws (lower) that are locking the load cell to the load receptor shall be sealed either with control marks or with wire, see figure 1.

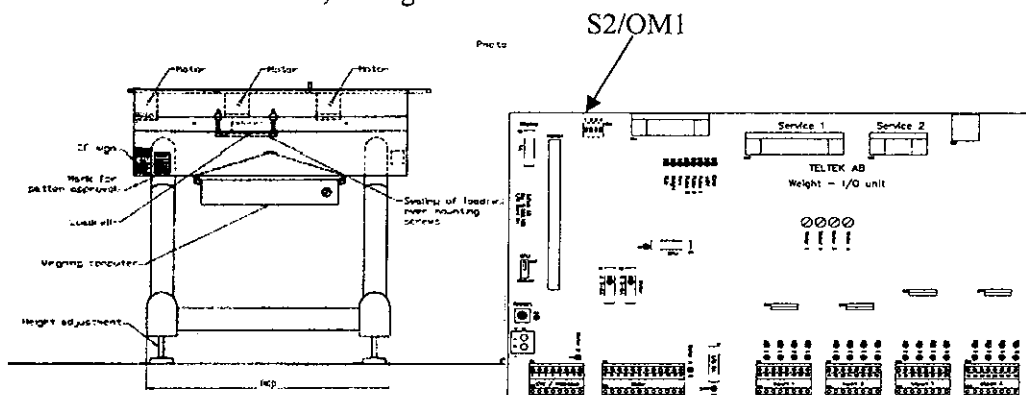


Figure 1. Sealing of load cell screws, C80 and dipswitch, S2.

### Descriptive plate

The descriptive plate shall be sealed with control marks.

## 6.2 Data logger

There is no mandatory requirement to have a data storage device.

## 7 Labelling and inscriptions

### 7.1 Information to be borne by and to accompany the instrument

The descriptive plate mounted on the instrument shall contain the following information:

- name or identification mark of the manufacturer
- serial number and type designation
- number of certificate
- accuracy class
- verification scale interval, e
- checksum
- maximum rate of operation
- maximum conveyor speed
- maximum capacity, Max
- minimum capacity, Min
- maximum preset tare, PT
- temperature range
- electrical supply

### 7.2 Conformity marking in accordance to article 17

The instrument shall be marked in accordance to article 17 which e.g. describes the CE-marking together with M, year of marking and the notified body number.

### 7.3 Further inscriptions, if necessary

No further inscriptions considered necessary.

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