EVALUATION CERTIFICATE

No. 0200-WL-07154

Object name	**3590E / CPWE**
Object type	**Weighing indicator for an automatic catchweigher / checkweigher instrument**

Issued by	**Force Certification A/S**

Issued in accordance with the requirements in WELMEC Guide 8.8:2017 "Guide on General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments".

In accordance with	OIML R51:2006, WELMEC Guide 7.2:2015 and OIML D11:2004 sect. 12 & 13 with severity level 3
Issued to	**Dini Argeo S.r.l.** Via della Fisica 20 41042 Spezzano di Fiorano (Mo Italy
Manufacturer	**Dini Argeo S.r.l..**
In respect of	A weighing indicator tested as a module for an automatic catchweigher / checkweigher instrument.
Characteristics	The **3590E / CPWE** weighing transmitter / indicator have the following characteristics: Number of VSIs: $n \leq 10,000$ Accuracy class XIII(1) or Y(a) Weighing mode: Static or dynamic The essential characteristics are described in the annex.
Description and documentation	The weighing indicator is described and documented in the annex to this certificate.
Remarks	The conformity was established by the reports listed in the annex.

This evaluation certificate cannot be quoted in an EU type examination certificate without permission of the holder of this certificate mentioned above.

The annex comprises 6 pages.

Issued on	**2019-09-25**

FORCE Certification references:
Task no.: 119-31728.90.30 and ID no.: 0200-WL-07154   **Signatory: J. Hovgård Jensen**

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Descriptive annex

1. Introduction

The families of indicating devices are designated the 3590E and CPWE Series.

They are designed to be used in conjunction with appropriate conveyors, a weighing platform, one or more controller, sensors and mechanical handling facilities to form an automatic checkweigher (Category X) or catchweigher (Category Y), designed to weigh packs statically or dynamically.

When the indicators are used as part of an automatic checkweigher or catchweigher designed to weigh packs dynamically; then supplementary testing according to WELMEC Guide 2.6 is necessary.

2. Description

2.1 Construction

The 3590 Series (Figure 1) and CPWE Series (Figure 2) are fully described in Evaluation Certificate 0200-WL-05741.

2.2 Devices

The indicators are provided with the devices listed in Evaluation Certificate 0200-WL-05741

In addition, the instruments are provided with:

- Automatic zero-setting after time interval (≤ 205 min)
- Batch identification (date/time for start/end)
- Average weight calculation
- Standard deviation calculation

2.3 Software

2.3.1 Security

The software is held on the Flash Memory and cannot be modified by the user. The calibration and legally relevant parameters are protected via physical or software means.

A jumper located on the main board prevents all access to the legally relevant parameters.

Alternatively, software sealing may be used to protect the calibration and legally relevant parameters. Two non-editable counters, designated CAL and CONFIG, are incremented each time the calibration and legally relevant parameters respectively are modified, with access to these parameters being password-protected. The counters'values can be display via the user menu.

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2.3.2 Software identification

The software identification is fully described in the user manual and can be displayed at power up or via the software menu.

The legally relevant software is identified by two parts: **prefix / version**.

> The **prefix** shows the instrument model and shall be 01.
>
> The **version** shows the legally relevant software version shall be 01.

The prefix / version may be followed by a suffix indicating the software program version and other options installed which may be freely modified.

Since the code may be longer than the digits available on the display, it is shown in two parts.

The software complies with Welmec Guide 7.2 (lssue 5), Risk class B, Type P, Extension L and T.

2.4 Alibi memory (Data Storage Device)

The alibi memory can be enabled/disabled via a protected parameter, and automatically records the following:

- All individual Gross weights and Preset tare value (PT)
- Batch start/end
- Batch lD
- lnstrument serial number

Figure 3 shows a typical record.

3. Technical data

The weight indicators are fully described in Evaluation Certificate 0200-WL-05741.

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4. Interfaces and peripherals

4.1 Interfaces

The indicators may be equipped with one or more of the following protective interfaces,

- 4 or 6-wire load cell connection
- DC voltage input
- RS-232
- RS-485
- Control inputs/outputs
- USB
- Ethernet
- Bluetooth
- Optoisolated inputs
- Photomosfet outputs
- SENOR (Digital in)
- RF (radio frequency)
- WiFi
- Anologue ouput and input
- Profibus
- Profinet
- DevicNet
- CANopen
- Ethercat

4.2 Peripheral devices

The instrument may be connected to any peripheral device that has been issued with a test certificate or parts certificate by a Notified Body responsible for Module B (Ml-006) under Directive 2014/32/EU in any Member State and bears the CE marking of conformity to the relevant directives; or,

A peripheral device without a test certificate may be connected under the following conditions:

- it bears the CE marking for conformity to the EMC Directive;
- it is not capable of transmitting any data or instruction into the weighing instrument, other than to release a printout, checking for correct data transmission or validation;
- it prints weighing results and other data as received from the weighing instrument without any modification or further processing; and
- it complies with the applicable requirements of Paragraph 8.1 of Annex l.

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5. Approval conditions

5.1 Compatibility of modules

For the composition of modules OIML R76-1:2006/EN45501:2015 annex F shall be satisfied.

6. Special conditions for verification

6.1 Composition of modules

The environmental conditions should be taken into consideration by the composition of modules for a complete weighing instrument, for example instruments with load receptors placed outdoors and having no special protection against the weather.

The composition of modules shall agree with Section 5.1.

7. Securing and sealing

7.1 Securing and sealing

Seals shall bear the verification mark of a notified body or alternative mark of the manufacturer or his representative according to ANNEX II, module F or D of Directive 2014/32/EU.

The inscription plate is located visible on the indicating device and is secured, either by sealing or by being of a form such that it is destroyed when removed.

Swapping of Flash Memory and access to the legally relevant parameters is prevented by sealing the jumper located on the main board by a tamper-evident label bearing a securing mark.

Components that may not be dismantled or adjusted by the user must be secured.

When software sealing is used, the CONFIG and CAL counters' values shall be written on a tamper-evident label on or near the rating plate.

8. Documentation

Test report
The test reports and the test performed are listed in evaluation report P01301 rev.1

Technical file
Contents of the technical documentation held by the notified body in technical file 119-31728.
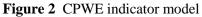
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9. Pictures

Figure 1 3590E indicator model

Figure 2 CPWE indicator model

```
ALRD00000-000009
START,08/07/15 12:50:59,  0.785kg,SN: 100109935
ALRD00000-000010
1,    0.820kg,PT    0.020kg
ALRD00000-000011
1,    0.820kg,PT    0.020kg
ALRD00000-000012
1,    0.820kg,PT    0.020kg
ALRD00000-000013
1,    0.820kg,PT    0.020kg
ALRD00000-000014
1,    0.820kg,PT    0.020kg
ALRD00000-000015
1,    0.820kg,PT    0.020kg
ALRD00000-000016
1,    0.820kg,PT    0.020kg
ALRD00000-000017
STOP ,08/07/15 12:51:12,        7
```

Figure 3 Typical batch data

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