EVALUATION CERTIFICATE

No. 0200-WL-07153

Object name	**DGT Series**
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 **DGT series** 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 5 pages.

Issued on **2019-09-25**

FORCE Certification references:
Task no.: 119-31728.90.20 and ID no.: 0200-WL-07153 **Signatory: J. Hovgård Jensen**

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Descriptive annex

1. Introduction

The family of indicating devices is designated the DGT Series.

It is 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 DGT indicating devices (Figure 1) are fully described in Evaluation Certificate 0200-WL-05741.

2.2 Devices

The indicator is provided with the following devices:

- Initial zero setting ($\leq$ 20% Max)
- Semi-automatic zero setting ($\leq$ 4% Max)
- Zero tracking ($\leq$ 4% Max)
- Semi-automatic subtractive tare weighing
- Preset tare
- Recall of Gross indication, when tare is active
- Determination of stability of equilibrium
- Indication of stability of equilibrium
- Multi-range and multi-interval function
- Alibi memory
- Gravity compensation
- Command via external device (PC)

The complete instrument shall prevent the operation of the semi-automatic zero-setting and semi-automatic tare devices during automatic operation.

The complete instrument shall be provided with an automatic zero setting device. The maximum time allowed between automatic zero-setting is 66 minutes.

The complete instrument shall be able to display the pre-set tare value.

Measurement data shall be stored automatically.

2.3 Operation

The DGT indicating devices are used as weight transmitters only and convert the load cell signal into a digital weight indication.

They shall be integrated as part of a system comprising a weighing platform, conveyors, sensors for pack detection and one or more PLC and associated software managing the weighing process (for instance but not limited to: average weight, standard deviation, data storage, interlocks, additional display).

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2.4   Software

2.4.1   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.

2.4.2   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 09.

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 7.2:2015, Risk class B, Type P, Extension L and T.

3.   Technical data

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

4.   Interfaces and peripherals

4.1   Interfaces

The available interfaces for the indicating devices are fully described in Evaluation Certificate 0200-WL-05741.

4.2   Peripheral devices

The following peripheral devices may be connected to the interfaces provided:

- Peripheral devices that have been issued with a Parts Certificate by a Notified Body responsible for type examination under Directive 2014/31/EU; or

- Peripheral devices without a Parts Certificate under the following conditions:

    o   it bears the CE marking for conformity to the EMC Directive;

    o   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;

    o   it prints weighing results and other data as received from the weighing instrument without any modification or further processing;

    o   it complies with the applicable requirements of EN:45501, i.e. 4.2, 4.4, 4.6 and 4.7.

A printing device may print additional information such as date or number to identify the printed weighing result(s) or sets of weighing results.

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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 P01954

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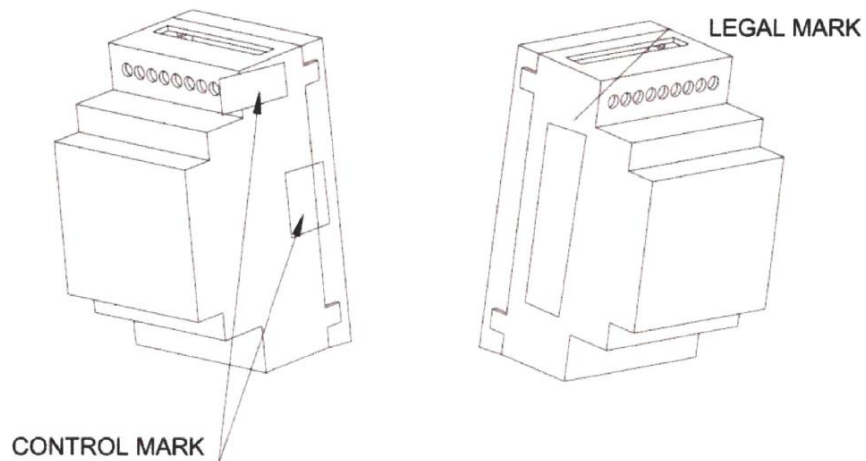Contents of the technical documentation held by the notified body in technical file 119-31728.

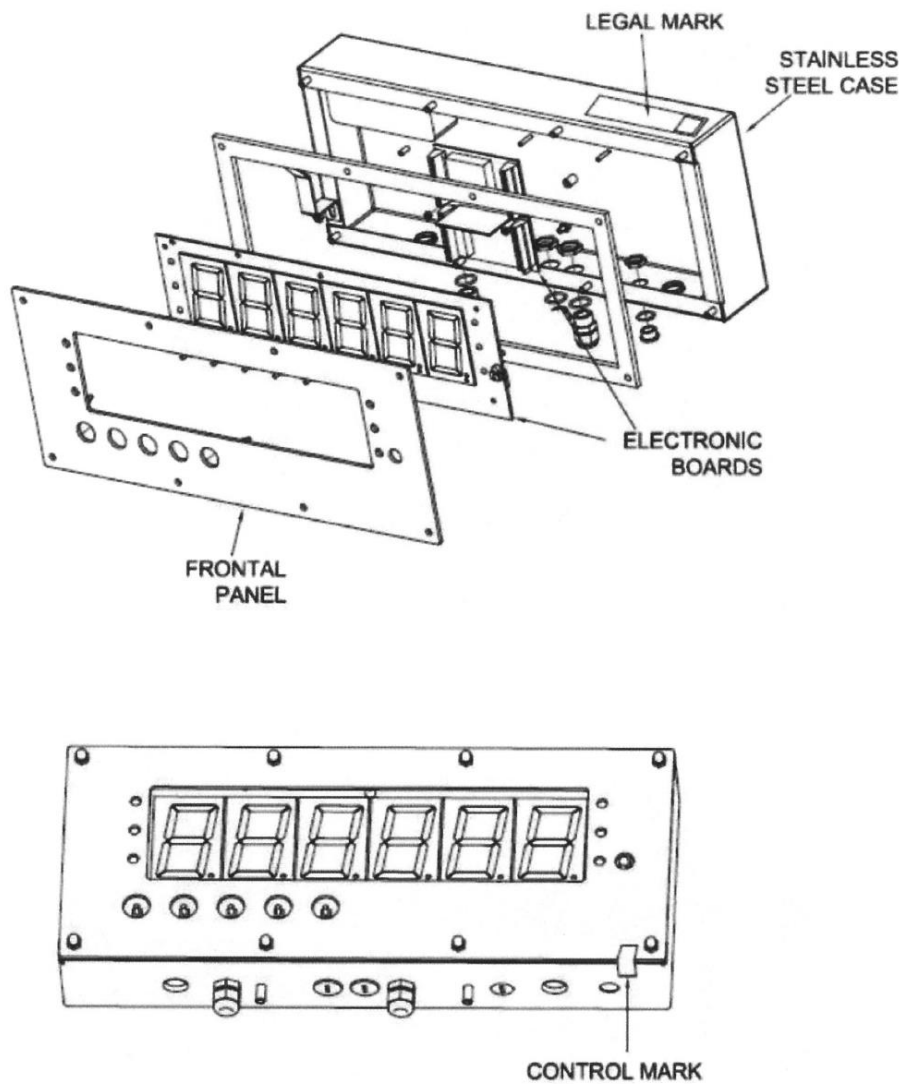FORCE Certification A/S · Park Alle 345 2605 Brøndby Tel+45 43 25 01 77 Fax +45 43 25 00 10 info@forcecertification.com www.forcecertification.com/
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9.   Pictures

Figure 1 DGT Series (ABS case, example)

Figure 2 DGT Series (stainless steel case, example)

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Figure 3 DGT sealing method (ABS case enclosure)

Figure 4 DGT sealing method (stainless steel enclosure)