



We help ideas meet the real world

EC Type Examination Certificate

DK0199.470

Hexaline

AUTOMATIC CATCHWEIGHING INSTRUMENT

Issued by DELTA Danish Electronics, Light & Acoustics
EU - Notified Body No. 0199

In accordance with the requirements for the automatic weighing instrument of Directive 2004/22/EC of the European Parliament and Council on Measuring Instruments (MID).

Issued to ESİT Elektronik Sistemler İmalat ve Ticaret Ltd. Sti.
Nişantepe Mah. Handegül Sk. No:6,
Çekmeköy, İstanbul
TURKEY

In respect of Automatic checkweigher / automatic catchweigher designated
Hexaline with variants of modules of load receptors, load cells and peripheral
equipment.
Accuracy class XIII(1) or Y(a)
Maximum capacity: 1500g to 7500g.
Verification scale interval: $e \geq 0.5$ g.
Maximum number of verification scale intervals: $n = 3000$ (however depend-
ent on environment and the composition of the modules).
Variants of modules and conditions for the composition of the modules are set
out in the annex.

The conformity with the essential requirements in Annex 1 and the specific requirements in Annex MI-006, chapter I & II of the Directive 2004/22/EC is met by the application of OIML R51-1:2006, OIML D11:2013 section 12 & 13 with severity level 3, WELMEC Guide 7.2:2011, and WELMEC Guide 8.16-1:2013.

The principal characteristics and approval conditions are set out in the descriptive annex to this certificate.

The annex comprises 7 pages.

Issued on 2014-12-19
Valid until 2024-12-19


Signatory: J. Hovgård

DELTA
Danish Electronics,
Light & Acoustics

Venlighedsvej 4
2970 Hørsholm
Denmark

Tel. +45 72 19 40 00
Fax +45 72 19 40 01
www.delta.dk
VAT No. DK 12275110

Descriptive annex

Contents		Page
1.	Name and type of instrument and modules	2
2.	Description of the construction and function	2
2.1	Construction	2
2.2	Function	3
3.	Technical data	4
3.1	Hexaline Automatic checkweigher / automatic catchweigher	4
3.2	Load receptor	4
3.3	Load cell	4
4.	Interfaces and peripheral equipment	4
4.1	Interfaces	4
5.	Approval conditions	4
5.1	Connection of cables	4
6.	Special conditions for verification	5
7.	Securing and location of seals and verification marks	5
7.1	Securing and sealing	5
7.2	Verification marks	5
8.	Location of CE mark of conformity and inscriptions	5
8.1	Identification plate	5
9.	Pictures	6

1. Name and type of instrument and modules

The automatic checkweigher / automatic catchweigher is designated Hexaline and is intended for dynamically weighing. It is manufactured by ESİT Elektronik Sistemler İmalat ve Ticaret.

2. Description of the construction and function

2.1 Construction

The Hexaline is a traditionally built checkweigher where an infeed/acceleration conveyor leads the products onto a weighing conveyor for product mass registration. The weighing conveyor is mounted on a load receptor with one single point load cell. The checkweigher may also be fitted with reject conveyor for product separation. The infeed/acceleration conveyor is equipped with guides to ensure a uniform feed of items to be weighed.

The automatic checkweigher / catchweighing instrument is - although intended for applications where the weighing can be repeated - equipped with an alibi storage device.

The instrument is software wise of Type P and Risk Class B with extension S according to WELMEC Guide 7.2:2011.

2.1.1 Indication

A LCD touch screen is placed on the front of Hexaline and is used for all communication between the checkweigher and the operator.

2.1.2 Electronics

The electronics that control the Hexaline is placed on a single pcb board (mainboard) inside the rear enclosure and contains microprocessor, memory, analogue electronics and I/O for control of Hexaline and communication.

The checkweigher is power supplied from one phase 200 to 240 VAC, 50 Hz.

2.1.3 Load cell

Set out in Section 3.3.

2.1.4 Load receptor

Set out in Section 3.2.

2.1.5 Interfaces and peripheral equipment

Set out in Section 4.

2.2 Function

The display is used to display other information than weight during setup and adjustment. During the display of other information, the weighing mode is inoperative.

Access to the functions is controlled through passwords in several levels.

The functions provided are detailed below.

2.2.1 Functions and devices

The automatic weighing instrument has the following permitted functions and devices that are subject to the Measuring Instrument Directive:

- Power up test
- Initial zero setting device (max. 20 % of Max)
- Semiautomatic zero setting device (max 4 % of Max)
- Zero tracking device (max 4 % of Max)
- Automatic zero setting device (max 4 % of Max)
- Preset tare device
- Extended indicating device (service mode only)
- Alibi memory
- Event log
- Detection of significant fault

When the automatic weighing instrument is stopped it can operate as a non-automatic weighing instrument of accuracy class III.

2.2.2 Software identification

The software consists of weighing software and display software. The installed version numbers can be displayed from the “Setting” menu.

The approved software versions are,

weighing software: 3.7

display software: 2.9

The software can be downloaded by the manufacturer from the USB port using a special password.

This is done under protection of the calibration switch, and such an action will be logged in the event log.

3. Technical data

The automatic weighing instruments and its modules are set out as follows:

3.1 Hexaline Automatic checkweigher / automatic catchweigher

Type:	Hexaline
Accuracy class:	XIII(1) or Y(a) III in non-automatic mode
Maximum capacity (Max):	1500g to 7500g
Minimum capacity (Min):	40g, however not less than $20 \times e$
Verification scale interval (e):	$e \geq 0.5g$
Weighing range:	Single-interval
Number of Verification Scale Intervals (n):	3000
Maximum tare effect:	$\leq 100\%$ of Max
Belt speed:	0.3 m/s to 1.2 m/s
Belt width:	200 mm or 300 mm
Weighing conveyor length:	300 mm to 450 mm
Temperature range:	0° to 40° C
Weighing mode:	Dynamically
Maximum time between automatic zero setting:	60 minutes
Electromagnetic class:	E2
Humidity:	Non-condensing
Power requirements:	200 to 240 VAC, 50 Hz
Peripheral interface:	Set out in Section 4

3.2 Load receptor

The weighing conveyor is a belt conveyor placed on a load receptor equipped with one load cell.

A Plexiglas wind shield is placed around the weighing conveyor.

3.3 Load cell

Hexaline uses a PX 20 kg load cell from ESIT.

4. Interfaces and peripheral equipment

4.1 Interfaces

4.1.1 Ethernet

The Hexaline may be equipped with the following interfaces,

- USB interface for connection of an USB pen drive for transferring of production reports.

The interface is characterised "Protective interfaces" according to Annex I, paragraph 8.1 in Directive 2004/22/EC.

5. Approval conditions

5.1 Connection of cables

All cables shall be shielded and the shield shall be properly EMC wise connected to the housing / connector in both ends.

Hexaline is approved for installation in fixed indoor locations.

6. Special conditions for verification

In stopped mode the Hexaline can operate as a non-automatic weighing instrument and shall be tested as such during verification.

7. Securing and location of seals and verification marks

7.1 Securing and sealing

Seals shall bear the verification mark of a notified body according to ANNEX F of the Directive 2004/22/EC or alternative mark of the manufacturer according to ANNEX D of the Directive 2004/22/EC.

7.1.1 Mechanical sealing

The identification plate shall be secured against removal with a brittle plastic sticker.

The mainboard and its electronics shall be secured against exchange by sealing its cover with stickers. The access to the calibration switch on the mainboard shall be prohibited by sealing the hole in the cover above the switch with a sticker. (See Figure 2).

The load cell connector shall likewise be sealed with a sticker.

7.2 Verification marks

A sticker with verification marks is to be placed on or near the identification plate of the instrument.

8. Location of CE mark of conformity and inscriptions

8.1 Identification plate

All inscriptions for the instrument shall be placed on the identification plate, which is located on a visible place on the measuring instrument.

8.1.1 CE mark

A sticker with the CE mark of conformity and the supplementary metrology marking consisting of the capital letter 'M' and the last two digits of the year of its affixing, surrounded by a rectangle, shall be located on the identification plate.

8.1.2 Inscriptions

The identification plate shall bear the following inscriptions:

- Manufacturer's trademark and / or name
- Type designation
- Serial number
- Accuracy class
- Max, Min and e (these shall additional be duplicated near or on the display)
- Temperature range: 0 °C / +40 °C
- Electromagnetic class: E2
- Humidity: Non-condensing
- Serial number of load cell
- Type examination certificate number

9. Pictures



Figure 1 Hexaline

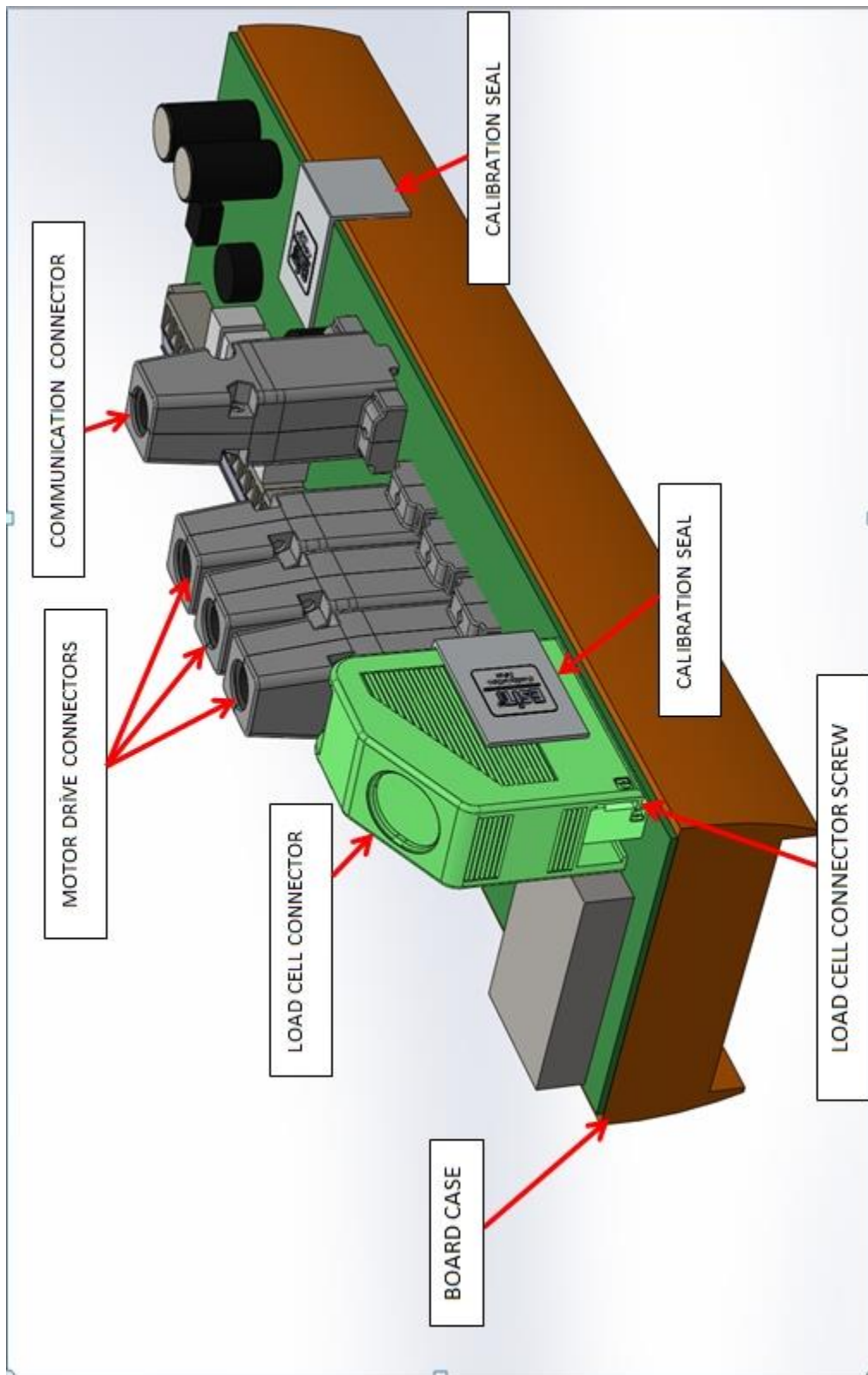


Figure 2 Hexaline, sealing of mainboard