

	
OIML Member State United Kingdom of Great Britain and Northern Ireland	OIML Certificate No. R51/2006-B-GB1-18.01
OIML CERTIFICATE ISSUED UNDER SCHEME B	
OIML Issuing Authority	NMO Stanton Avenue Teddington TW11 0JZ United Kingdom
Person responsible:	Mannie Panesar – Head of Technical Services
Applicant	Loma Systems Group and ITW Group Southwood Farnborough Hampshire GU14 0NY United Kingdom
Manufacturer	The applicant
Identification of the certified type	CW³ Checkweigher <i>(the detailed characteristics are defined in the Descriptive Annex)</i>
<p>This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):</p> <p>OIML R 51, Edition: 2006</p> <p>For accuracy class: XIII(1)</p>	
<p>Issue date: 09 May 2018</p> <p>The OIML Issuing Authority</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div data-bbox="188 1809 785 2042" style="width: 45%;">  <p>G Stones Technical Manager <i>For and on behalf of the Head of Technical Services</i></p> </div> <div data-bbox="1241 1854 1356 2042" style="width: 45%; text-align: center;">  <p>UKAS PRODUCT CERTIFICATION</p> <p>0135</p> </div> </div>	

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. P02429 dated 09 May 2018 that includes 23 pages

The technical documentation relating to the identified type is contained in documentation file:

No. P02429-D dated 03 May 2018

OIML Certificate History

Revision No.	Date	Description of the modification
0	09 May 2018	Certificate first issued
-	-	-

No revisions have been issued.

Important note:

Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

DESCRIPTIVE ANNEX

Characteristics of the instrument:

This pattern of an automatic catchweighing instrument, designated the CW³, operates as an automatic checkweigher (Category X).

The instrument comprises a cabinet with user interface, weighing device, mechanical handling facilities and reject device. The instrument is designed to weigh packs dynamically.

Construction:

The instrument is constructed in stainless steel. The framework is a fabricated floor standing stainless steel frame on adjustable feet. On the frame are mounted the modular conveyor sections (in-feed, weigh platform, and out-feed) and the main cabinet with console. The out-feed conveyor can be equipped with one of a number of reject devices. The load transport system may consist of conveyor belts driven by rollers or by sets of chains (designated as "Drag Link"). The instrument is designed to be permanently installed.

The control cabinet, situated at the front of the instrument, houses the electrical hardware. A console, mounted above the control cabinet contains the keyboard and display in the form of a touch screen. Photocells mounted at either end and either side of the conveyor are used for pack detection.

Model variants and designation:

- Ultra Light Weight
- Lightweight
- Mid-Range
- Heavy Range
- Super Heavy Range (multi-interval)
- CW³s Range

Technical Data:

Instrument variant:	Ultra Light Weight	Lightweight	Mid-Range
Maximum capacity (Max):	400 g	≤ 1500 g	≤ 6000 g
Minimum capacity (Min):	15 g	≥ 50 g	≥ 50 g
Scale interval (e =):	0.5	Min to 200 g: e ≥ 0.5 g 200 g to Max: e ≥ 1 g	Min to 200 g: e ≥ 0.5 g 200 g to Max: e ≥ 1 g
Number of scale intervals (n):	800	≤ 6000	≤ 6000
Preset Tare (PT):	≤ - Max		
Load cell model	Teda Huntleigh 240 C3 or Utilcell type 240		
Load cell E _{max}	5 kg	10 kg	20 kg
Climatic environment	0°C to +40 °C Non-condensing (closed)		
Electromagnetic environments	E1 and E2		
Power supply	100 - 240 Va.c. 50 Hz		
Accuracy class	XIII(1)		

Operating speed	60 m/min	min to 200 g (e=0.5): ≤ 70m/min	See table below
		min to 200 g (e≥1): ≤ 80m/min	
		201 g to max: ≤ 100m/min	

Instrument variant:	Heavy Range	Super Heavy Range	CW ³ s Range
Maximum capacity (Max):	12 kg	10/20/50 kg	3000 g
Minimum capacity (Min):	500 g	3 kg	200 g
Scale interval (e =):	2 g	5/10/20 g	1 g
Number of scale intervals (n):	6000	≤ 2500	3000
Tare:	≤ - Max	≤ - Max ₁	≤ - Max
Load cell model	Tedea Huntleigh 240 C3 or Utilcell type 240	Tedea Huntleigh 1265 C3 or HBM PW12C3-MR	Utilcell Type 240
Load cell E _{max}	30kg	150 kg	20 kg
Climatic environment	0°C to +40 °C		
	Non-condensing (closed)		
Electromagnetic environments	E1 and E2		
Power supply	100 - 240 Va.c. 50 Hz		
Accuracy class	XIII(1)		
Operating speed	See table below	50 m/min	See table below

Maximum operating speed for Mid-Range, Heavy Range and CW³s Range:

50 g to 200 g	50 m/min
201 g to 2000 g	100 m/min
2001 g to 6000 g	70 m/min

Load cell:

The load cells are as described under Technical Data. The PC console provides the 5.5 VDC excitation voltage.

Alternatively, any compatible load cell may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules and any particular installation requirements.
- It is not a load cell with digital output
- The characteristics of the replacement load cell such as nlc, Y, Z are the same or better than the load cell tested dynamically (Vishay Tedea Huntleigh 240 C3, E_{max} = 10 kg)
- The design of the load cells and the material are the same
- No oil damper is used
- The sensitivity is greater than 0.67 μV/division

Devices:

- Automatic zero setting device active during automatic operation (active if the time between two packs is more than 500 ms)
- Pre-set tare device (subtractive)
- Static calibration not accessible to the user
- Dynamic calibration accessible to the user
- Belt speed setting accessible to the user
- Internal memory for storage of batch reports
- Device to determine the stability of equilibrium, active during dynamic operation
- Device that acts upon significant faults
- Screen check at power-up

Display:

The instrument may use one of the following PC consoles which house a touch-screen display:

- B&R PP420; houses a Compact Flash card on which the firmware is held.
- B&R PP520; houses a Compact Flash card on which the firmware is held.
- B&R PPC70; houses a Compact Flash card on which the firmware is held.
- B&R AP1100; houses a CFast card on which the firmware is held.

Interfaces:

- RS 232
- USB
- Ethernet

The instrument may be connected to the Loma OPC, LomaEnet or TRACS systems for the collection of batch reports.

Software:

The software version number must be as follows

V02.32.XX.Y.Z (or V.02.32.XX)
V02.33.XX.Y.Z (or V.02.33.XX)

Where XX.Y.Z (or XX) reflects changes to the non-legally relevant part of the software. The software version is shown in the start-up window when the instrument is in warm-up mode and can also be displayed at any time upon command.

Sealing:

Components that may not be dismantled or adjusted by the user will be secured by either a wire and seal or tamper evident label and securing mark.

The load cell is secured to the frame by a tamper-evident sticker.

Removal of the Compact Flash card or CFast card, described under Display, is prevented by a tamper-evident sticker on the holding latch.

Alternatives:

There are currently no authorised alternatives.