

Member State of OIML United Kingdom of Great Britain and Northern Ireland OIML Certificate No R61/2004-GB1-13.01

OIML CERTIFICATE OF CONFORMITY

Issuing authority:	National Measurement Office
Person responsible:	Paul Dixon – Product Certification Manager
Applicant:	Ishida Europe Ltd 11 Kettles Wood Drive Woodgate Business Park Birmingham, B32 3DB United Kingdom
Manufacturer:	The applicant
Identification of the	

certified pattern: CCW-R, CCW-RS and CCW-RV

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

OIML R 61 - Edition 2004(E) for Reference accuracy class 1

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the certificates reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.

Issue Date: Reference No: 21 March 2013 TS0104/0007

Signatory: P R Dixon for Chief Executive National Measurement Office | Stanton Avenue | Teddington | TW11 0JZ | United Kingdom Tel +44 (0)20 8943 7272 | Fax +44 (0)20 8943 7270 | Web www.bis.gov.uk/nmo

NMO is an Executive Agency of the Department for Business Innovation & Skills

National Measurement Office

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The conformity was established by tests and examination described in the associated pattern evaluation report P01039 which includes 8 pages.

Characteristics of the instrument:

Description:

This family of automatic gravimetric filling instruments, designated the CCW-R, CCW-RS and CCW-RV, is designed for dispensing predetermined loads of powdered, granular or liquid materials. The instruments consist of a feeding device, a number of weighing units, and a weighing controller.

Each model is designated the CCW-xx-2nn, with xx the type of instrument (R, RS or RV) and nn the number of weighing units.

The instruments operate as associative (selective combination) weighers, and derive the most appropriate combination of loads in one or more weighing unit for discharge as a fill so that the target weight selected by the user is achieved.

Main features:

- Main body with feeders, hoppers, chutes
- Weighing units
- Weighing controller
- Remote control unit (RCU)

Devices:

- Semi-automatic zero-setting device
- Automatic zero-setting device
- Determination of stability of equilibrium
- Determination of optimum combination of loads
- Automatic selection of "Low target weights" or "high target weights" modes based on the target weight
- Average weight mode

Load cell:

Each weighing unit comprises a load cell supporting the weigh hopper and associated load transportation mechanism.

The load cell is manufactured by Ishida Japan, with type and capacity as per following table.

Technical characteristics:

Power supply	230 VAC / 50 Hz				
Reference accuracy class, Ref(x)	1				
Accuracy Class	Assigned at verification				
"Volume"	Standard		Large		
"Target weight" mode *	Low	High	Low	High	
Scale interval d = (g)	0.2	0.5	1	2	
Maximum capacity (g)	400	800	2000	4000	
Minimum capacity (g)	3.8	10	19	50	
Minimum Fill (g)	15.2	40	76	200	
Frequency of automatic zero setting	24 min	63 min	79 min	158 min	
Load cell type	TLC-6L		NLC	NLC-24L	
Load cell E _{max}	6 kg		24 kg		
Average number of loads	4				
Maximum rate of operation	Assigned at verification				
Operating temperature range	-5 °C to + 40 °C				

Software:

The legally relevant software is as follows (checksums):

Unit	CCW-R/RS		CCW-RV	
RCU	6DD3			
DMU	383F (Std Vol.)	01F2 (Large Vol.)	85EC (Std Vol.)	4F97 (Large Vol.)
WCU	2592		EDF1	

This information can be displayed by accessing the 'program number' page in the maintenance pages of the RCU.

The legally relevant parameters are hard-coded with the exception of the zero-span calibrations which is password-protected. A non-editable counter increments every time a calibration is changed, the counter is designated is displayed at the bottom of the Zero/Span page in maintenance level, using the format: #counter, time, date.

Interfaces:

The instrument may have the following interfaces:

_	RS232C	(CCW-R and CCW-RS)
_	RS485	(CCW-R and CCW-RS)

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R61/2004-GB1-13.01	21 March 2013	Certificate first issued