



**United Kingdom of Great Britain
and Northern Ireland**

**OIML Certificate No
R76/2006-GB1-10.02**

OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory
(Part of the National Measurement Office)**
Address: **Stanton Avenue
Teddington
Middlesex
TW11 0JZ
United Kingdom**

Person responsible: **Paul Dixon – Product Certification Manager**

Applicant

Name: **Rice Lake Weighing Systems**
Address: **230 W. Coleman Street
Rice Lake
WI 54868
USA**

Identification of the certified pattern:

Weighing indicators, as part of a non-automatic weighing instrument, designated the CW90-A; CW90-E; CW90X-A and CW90X-E.

Further characteristics see page 2

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 Organization of Legal Metrology (OIML):

OIML:	R76
Edition:	2006 (E)
Accuracy class:	III, IIII

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.

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

The conformity was established by tests described in the associated:

NWML Test reports:	TR 588	having 42 pages
	SN 1156	having 9 pages
	SN 1157	having 14 pages
Pattern Evaluation report:	P00270	having 14 pages

The issuing authority



Mr G E Stones

The CIML member



Mr P Mason

Date: 28 October 2010

Ref: T1128/0236

Characteristics: The indicating devices are designated CW90-A; CW90-E; CW90X-A and CW90X-E. They are designed to be used as part of a Class III or IIII non-automatic weighing instruments. The indicators are self-indicating, mains or DC-powered and operate as single-interval instruments.

Main features:

- Controller housed in stainless steel enclosure
- LED display with enunciators (stability, zero, gross/net, units, tare, preset tare, percentage)
- "UNDER", "ACCEPT" and "OVER" bands
- Function and navigation keys
- Numeric keypad (CW90-A and CW90-E only)
- Mains-powered (CW90-A and CW90X-A) or DC-powered (CW90-E and CW90X-E)

Devices:

- Semi-automatic zero setting ($\leq 4\%$ of Max)
- Zero-tracking ($\leq 0.5d/s$ within 4% Max)
- Subtractive semi-automatic tare balancing
- Pre-set tare
- Checkweighing
- Printing
- Direct sales to the public (if Preset Tare is disabled)

Technical data:

Power supply	100-240 VAC - 50/60 Hz 10-60 VDC
Maximum number of scale intervals	10,000
Maximum tare	- Max
Load cell excitation voltage	5 Vdc
Minimum load cell impedance	43.75 Ω
Maximum load cell impedance	2000 Ω
Minimum input voltage per verification scale interval	0.85 μ V
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	70 mV
Fraction of maximum permissible error	$P_{ind} = 0.5$
Operating temperature range	- 10 $^{\circ}$ C to + 40 $^{\circ}$ C
Load cell cable (from indicator to load cell junction box) - Maximum length	276 m/mm ² (6-wire configuration) 0.5 m (4-wire configuration)

Interfaces / optional boards:

The instrument may be fitted with the following protected interfaces:

- Load cell 4 or 6-wire connection
- RS232
- 20mA Current Loop
- Ethernet TCP/P (wired, shielded cable required)
- Wireless Lan Card Wi-Fi 802.11 A/B
- USB
- Fiber optic
- Digital I/O (braided cable with added ferrite required)

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-10.02	28 October 2010	Certificate first issued.
-	-	No revisions have been issued.

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