



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

**OIML Certificate No  
R76/1992-GB1-10.08**

## **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: **Ryco Equipment Inc.**  
Address: **6810 220<sup>th</sup> Street SW  
Mountlake Terrace  
Bellingham  
WA 98043  
USA**

Identification of the certified pattern:

**#821G, non-automatic weighing instrument**

**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):

<b>OIML:</b>	<b>R76</b>
<b>Edition:</b>	<b>1992 (E)</b>
<b>Accuracy class:</b>	<b>III</b>

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.

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The conformity was established by tests described in the associated:

NWML Test reports:	TR 584	having 39 pages
Pattern evaluation report:	P00479	having 13 pages

The issuing authority



Mr P R Dixon

The CIML member



Mr P Mason

Date: 28 September 2010

Ref: TS1201/0005

Characteristics: The instrument is a #821G, Class III or IIII, mains or battery-operated, self-indicating, single-interval, non-automatic weighing instrument.

It consists of a #821G indicator connected to a weighing platform.

Main features:

- LCD display
- Operator's keypad (numerical and function keys)
- Stainless steel casing

Devices:

- Initial zero-setting ( $\leq 20\%$  Max)
- Semi-automatic zero setting ( $\leq 4\%$  Max)
- Zero-tracking ( $\leq 4\%$  Max)
- Semi-automatic subtractive tare weighing (T = - 20% Max)
- Zero-indicator
- Determination of stability of equilibrium
- Net indicator
- Units change (kg or g)
- Weight bar
- Totalisation

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Technical data:

Power supply	100-240 VAC
Maximum number of scale intervals	5,000
Load cell excitation voltage	5 Vdc
Minimum load cell impedance	350 $\Omega$
Maximum load cell impedance	1000 $\Omega$
Minimum input voltage per verification scale interval	1 $\mu$ V
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	36 mV
Fraction of maximum permissible error	$P_{ind} = 0.5$
Operating temperature range	- 10 $^{\circ}$ C to + 50 $^{\circ}$ C
Load cell cable (from indicator to load cell junction box) - Maximum length	2.5 m (4-wire configuration) 278 m/mm <sup>2</sup> (6-wire configuration)

Load cell:

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. A load cell marked NH is allowed only if humidity testing to R76 has been conducted on this load cell
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation.

Interfaces:

- 4 or 6-wire load cell connection (1 channel only allowed under this certificate)

**Certificate History**

ISSUE NO.	DATE	DESCRIPTION
R76/1992-GB1-10.08	28 September 2010	Certificate first issued.
-	-	No revisions have been issued.

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