



National  
Measurement &  
Regulation Office



Member State of OIML  
United Kingdom of Great Britain  
and Northern Ireland

OIML Certificate No  
R76/2006-GB1-13.03  
Revision 2

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement and Regulation Office**  
Person responsible: **Paul Dixon – Director, Technical Services**  
Applicant: **Rinstrum Pty Ltd  
41 Success Street  
Acacia Ridge  
Brisbane 4110  
QLD  
Australia**  
Manufacturer: **The applicant**

Identification of the  
certified pattern: **C510, C520 and C530**

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 76 - Edition 2006(E) for accuracy class: [III]**

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.

This revision replaces previous versions of the certificate.

Issue Date: **03 February 2016**  
Reference No: **TS1201/0040**

**G Stones**  
Technical Manager – NMRO Technical Services



0135

The conformity was established by testing and examination described in the associated Evaluation Report P01324 which includes 14 pages.

### **Characteristics of the instrument:**

#### Main features:

This indicating device is designated the C510 digital indicator. It is designed to be used as part of a single/dual range/interval, Class III non-automatic weighing instrument. The indicator is self-indicating and DC or mains-powered.

The C510 has the following features:

- ABS plastic enclosure
- Six digit LED display
- Five functions keys
- Weighing status
- Multiple range/interval status
- Connections and ports located at the rear

#### Devices:

- Extended indicating device
- Printing device
- Totalising device
- Initial zero setting device ( $\leq 20\%$  of Max)
- Zero tracking device ( $\leq 4\%$  of Max)
- Semi-automatic zero setting device ( $\leq 4\%$  of Max)
- Tare setting device: Semi-automatic, balancing, subtractive ( $T = - \text{Max}$ ) or additive (gross Max  $\leq 10,000$  div)
- Preset tare device
- Multi-range device
- Multi-interval device
- lb/kg switching device
- Gross/net switching device
- Calibration device
- Piece counting device
- Fault handling device
- Display test device, on power up
- Alibi memory device
- Zero indicator
- Indication of stable equilibrium

Technical characteristics:

Maximum number of scale intervals	3 000	6 000	10 000
Load cell excitation voltage	5 V DC		
Minimum load cell impedance	21 $\Omega$		
Maximum load cell impedance	5000 $\Omega$		
Minimum input voltage per verification scale interval	0.5 $\mu$ V/Div		
Measuring range minimum voltage	0.001 mV		
Measuring range maximum voltage	25 mV		
Fraction of maximum permissible error	0.5		
Operating temperature range	-10 / + 40 $^{\circ}$ C		
Load cell connection	6 wire		
Load cell cable length m/mm <sup>2</sup> (junction box to indicator)	755	378	227

Note: Cable length obtained from manufacture.

Technical data:

The indicator can either operate directly from mains AC supply (86-260 V AC 48-62 Hz) or via a stable DC supply (12-24 V DC). Any compatible CE-marked mains adaptor may be used.

Interfaces:

The instrument may have the following interface type:

- 6-wire load cell connection
- DC voltage input
- 2 x RS-232
- RS-485
- Control inputs/outputs
- 2 x USB (host and slave)
- 2 x UARTS
- 2 x IIC (optional accessory)
- Ethernet

Software:

The legally relevant software (alibi) is designated v1.0x (where x refers to the identification of the non-legally relevant part of the software, which may be modified by the manufacturer).

The application software (non-legally relevant) is designated Pxxx or Vx.xx (where xxx and x.xx may be modified by the manufacturer).

This information is displayed upon instrument start-up and when exiting the setup menus.

Variants:

C520: indicator fitted with a 6 x 14 segment LED display and 6 function keys.

C530: module with no display or function keys, acting as a weighing module only (connected to C520 display and keyboard when configured as a complete instrument).

The C520 indicator and C530 module may be fitted with a Rinlink passive infra-red optical interface

**CERTIFICATE HISTORY**

<b>ISSUE NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
R76/2006-GB1-13.03	15 July 2013	Certificate first issued.
R76/2006-GB1-13.03 Revision 1	04 April 2014	Test Report SN 1278 added to the Evaluation report.
R76/2006-GB1-13.03 Revision 2	03 February 2016	Software section added. C520 indicators and C530 weighing module added.