

	
<b>OIML Member State</b> United Kingdom of Great Britain and Northern Ireland	<b>OIML Certificate No.</b> <b>R60/2000-A-GB1-18.03</b> <b>Revision 1</b>
<b>OIML CERTIFICATE ISSUED UNDER SCHEME A</b>	
<b>OIML Issuing Authority</b>	<b>NMO</b> <b>Stanton Avenue</b> <b>Teddington</b> <b>TW11 0JZ</b> <b>United Kingdom</b>
<b>Person responsible:</b>	<b>Mannie Panesar – Head of Technical Services</b>
<b>Applicant</b>	<b>CARDINAL SCALE MANUFACTURING COMPANY</b> <b>203 EAST DAUGHERTY STREET</b> <b>WEBB CITY, MISSOURI</b> <b>MO 64870</b> <b>USA</b>
<b>Manufacturer</b>	<b>The applicant</b>
<b>Identification of the certified type</b>	<b>AC</b> <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><b>OIML R 60, Edition: 2000</b></p> <p>For accuracy class: <b>C4 or C3</b></p>	
<p>Issue date: 23 October 2018</p> <p><b>The OIML Issuing Authority</b></p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div data-bbox="188 1682 785 1933" style="width: 60%;">  <p><b>G Stones</b>  <b>Technical Manager</b>  <i>For and on behalf of the Head of Technical Services</i></p> </div> <div data-bbox="1241 1742 1358 1933" style="width: 35%; text-align: center;">  <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. P02197-Revision 1 dated 23 October 2018 that includes 3 pages

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

No. P02197-D dated 25 May 2018.

#### **OIML Certificate History**

<b>Revision No.</b>	<b>Date</b>	<b>Description of the modification</b>
Revision 0	25 May 2018	Certificate first issued
Revision 1	23 October 2018	Maximum Capacity: lower range extended to include 22.5t. Accuracy class C4 and Y = 15000, for E <sub>max</sub> 22.5t – 112.5t.

This revision replaces previous versions of the certificate

*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 Load Cell:**

	<b>Designation</b>	<b>Value</b>							<b>Units</b>
Accuracy Class		C4					C3		
Additional marking		CH							
Maximum number of load cell verification intervals	$n_{LC}$	4 000					3 000		
Maximum capacity	$E_{max}$	22.5	30	40	50	100	112.5	150	t
Minimum dead load, relative	$E_{min}/E_{max}$	0							%
Minimum load cell verification interval	$v_{min}$	1.5	2	2.7	3.4	6.7	7.5	15	kg
Relative $v_{min}$ (ratio to minimum load cell verification interval)	$Y = E_{max}/v_{min}$	15 000					10 000		
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	4 000					3 000		
Rated output		2							mV/V
Maximum excitation voltage		15							Vac/dc
Input impedance (for strain gauge load cells)	$R_{LC}$	1150 ± 50							Ω
Temperature rating		-10 / + 40							°C
Safe overload, relative	$E_{lim}/E_{max}$	200							% F.S
Apportionment factor	$P_{LC}$	0.7							
Cable length:		≤ 18							m
Additional characteristics:		6 wire							
Transducer material		Stainless steel							
Atmospheric protection		Hermetic Welded							
Output impedance		1005 ± 5							Ω
Reference excitation voltage		10							Vac/dc
Cable cross-section		0.25							mm <sup>2</sup>