

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

OIML Certificate No  
R60/2000-GB1-17.07

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**  
Person responsible: **Mannie Panesar – Head of Technical Services**  
Applicant: **Straininstall UK Limited  
9-10 Mariners Way  
Cowes, Isle of Wight  
United Kingdom**  
Manufacturer: **The applicant**  
Identification of the certified pattern: **Diaphragm stainless steel  
compression digital load cell**

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 R60 - Edition 2000(E) for accuracy class: D0.3**

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: 14 June 2017**



**Grégory Glas**  
**Technical Manager**  
*For and on behalf of the Head of Technical Services*



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The conformity was established by testing and examinations described in the associated test reports issued by NMO, No. TR 747, which includes 16 pages, and Avery Weigh-Tronix, No 03842, which includes 24 pages.

**Characteristics of the Load Cell:**

| <i>Model designation</i>                                       | <i>Designation</i>    | <i>Value</i>   | <i>Units</i> |
|--|-----------------------|--|--------------|
| Classification   |                       | D0.3   |              |
| Additional marking   |                       | CH   |              |
| Maximum number of load cell verification intervals             | $n_{LC}$              | 300  |              |
| Maximum capacity   | $E_{max}$             | 15 000 - 75 000  | kg           |
| Minimum dead load, relative                                    | $E_{min}/E_{max}$     | 0  | %            |
| Relative $V_{min}$ (ratio to minimum LC verification interval) | $Y = E_{max}/V_{min}$ | 300  |              |
| Relative DR (ratio to minimum dead load output return)         | $Z = E_{max}/(2*DR)$  | 300  |              |
| Rated output (strain gauge bridge - internal)                  |                       | N/A  | mV/V         |
| Maximum excitation voltage<br>Strain gauge bridge (internal)   |                       | 5  | V DC         |
| Input impedance (for strain gauge loadcells)                   | $R_{LC}$              | 780  | $\Omega$     |
| Temperature rating   |                       | -10 to +40   | $^{\circ}C$  |
| Apportionment fraction   | $P_{LC}$              | 0.8  |              |
| Safe overload, relative  | $E_{lim}/E_{max}$     | 150  | %            |
| Cable length   |                       | N/A  | m            |
| Additional characteristics                                     |                       | 5-way metal shell connector on loadcell.<br>4-wire shielded interconnecting cable. |              |
| Output signal impedance  |                       | 700  | $\Omega$     |
| Loadcell supply voltage<br>(external via connector)            |                       | 6-20   | V DC         |
| Rated output (loadcell digital output)                         |                       | CANbus interface   |              |

**CERTIFICATE HISTORY**

| ISSUE NO.          | DATE         | DESCRIPTION                    |
|--------------------|--------------|--------------------------------|
| R60/2000-GB1-17.07 | 14 June 2017 | Certificate first issued.      |
| -                  | -            | No revisions have been issued. |