

	
<b>OIML Member State</b> United Kingdom of Great Britain and Northern Ireland	<b>OIML Certificate No.</b> <b>R134/2006-B-GB1-20.01</b>
<b>OIML CERTIFICATE ISSUED UNDER SCHEME B</b>	
OIML Issuing Authority <b>NMO</b> <b>Stanton Avenue</b> <b>Teddington</b> <b>TW11 0JZ</b> <b>United Kingdom</b>  Person responsible: <b>Mannie Panesar – Head of Technical Services</b>	
Applicant <b>Intercomp Company</b> <b>3839 County Rd 116</b> <b>Medina MN 55340</b> <b>United States</b>	
Manufacturer <b>The applicant</b>	
Identification of the certified type <b>LS630</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 134, Edition: 2006</b></p> <p>For accuracy class: 10, F</p>	
Issue date: 15 May 2020  <b>The OIML Issuing Authority</b>   <b>G Stones</b> <b>Technical Manager</b> <i>For and on behalf of the Head of Technical Services</i>	

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. P02432 dated 15 May 2020 that includes 12 pages

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

No. P02432-D dated 15 May 2020

#### **OIML Certificate History**

<b>Revision No.</b>	<b>Date</b>	<b>Description of the modification</b>
0	15 May 2020	OIML Certificate first issued.
-	-	-

No revisions have been issued.

*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

### Introduction

The Intercomp LS630 system is an instrument used for dynamic axle weighing of road vehicles in motion. The weighing system shall be permanently installed according to manufacturer's guidelines in a controlled weighing area, and shall adhere to the installation requirements of OIML R134:2006(E).

An interlock prevents weights being stored or transmitted if the maximum operating speed is exceeded.

The instrument may be used for the determination of gross vehicle weight or single axle loads, or both.

The system comprises a pair of weighing platforms, each housing eight load cells connected to an integrated LS630 weighing module. The platforms are connected to a PC running the WIM software (RS485).

### Characteristics of the instrument:

Accuracy class for total vehicle mass	10
Accuracy class for single axle loads	F
Maximum capacity (per axle)	$\leq 20,000$ kg
Scale interval (d)	$\geq 50$ kg
Minimum capacity	10 d
Number of scale intervals	$\leq 800$
Maximum speed	8 km/hr
Direction of travel	Single
Operating temperature range	-20 / + 60 °C
Power supply	9 VDC battery

### Technical characteristics of the LS630 weighing module:

Maximum number of scale intervals	10,000
Load cell excitation voltage	3.3 V
Minimum load cell impedance	125 $\Omega$
Maximum load cell impedance	375 $\Omega$
Minimum input voltage per verification scale interval	0.5 $\mu$ V
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	20 mV
Fraction of maximum permissible error	0.5
Operating temperature range	- 20 / + 60 °C
Load cell connection	6 wire
Load cell cable length (junction box to indicator)	Up to 100 meters

Note: Load cell cable length defined by manufacturer. Load cell cable must be installed in such a way that it is not susceptible to power surges i.e. lightning protection is considered.

Devices:

- Semi-auto zero-setting
- Initial zero-setting
- Zero tracking
- Total vehicle mass
- Single axle loads
- Data storage

Interfaces:

The instrument may have the following interface types:

- RS485 (LS630 to PC)
- RS232 output (PC)
- Induction loop input (PC)
- Relay output (PC)

Load cell:

Any compatible load cell(s) 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 OIML R134 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 at the time of verification.
- The load cell transmission conforms to a standard type.

Software:

**LS630:**

The firmware identification can be displayed via the WIM software by clicking 'Get Firmware and Cal Factors' on the Splash/About screen and shall be: 3.xx, with xx reflecting non-legally relevant changes. Legally relevant parameters are protected via a jumper on the main board.

**WIM software:**

The WIM software handles the display of legally relevant indications and control functions. An MD5 checksum is calculated over the entire software executable. The software identification is shown on the "splash" screen and is as follows for verification purposes:

Software Version: 1.2.0.0

Checksum: 9C38BD5720BCE4B56C2C3023398CB8D6

LPP API Version: 1.4.1.0

Checksum: FE4C8E5F99E203C6CA33D46906BB524B

Any changes to legally relevant parameters on the WIM software are recorded in the "Change Log". The "Change Log" is displayed by selecting the "Review" tab at the top of the home screen.

Sealing:

**LS630:**

Access to the load cells, electronics, legally relevant parameters and download of software is prevented by sealing the LS630 enclosure.

Alternatives:

There are currently no authorised alternatives.