CERTIFICAT DE PARTIE D'INSTRUMENT DE MESURE
PART OF A MEASURING INSTRUMENT CERTIFICATE

N° LNE- 40772 rév. 0 du 06 octobre 2025

Délivré par / Issued by : Laboratoire national de métrologie et d'essais

En application / In accordance with : Guide WELMEC 8.8 - Norme EN 45501 : 2015 - OIML R76-1 : 2006 - Guide WELMEC 7.2 (2023)
WELMEC Guide 8.8 - EN 45501:2015 - OIML R76-1:2006 - Guide WELMEC 7.2 (2023)

Délivré à / Issued to : LOGR Pty Ltd
176 Wattle Street AUSTRALIA 5061 MALVERN

Producteur / Producer : LOGR Pty Ltd
176 Wattle Street AUS 5061 MALVERN, SA

Concernant / In respect of : Un dispositif de traitement des données numériques avec afficheur primaire type LOGR Weighbridge System, testé en tant que partie d'un instrument de pesage.

A digital data processing device with a primary display type LOGR Weighbridge System, tested as a part of a weighing instrument.

Caractéristiques / Characteristics : Les autres caractéristiques sont données en annexe.

The other characteristics are given in annex.

Les principales caractéristiques et conditions d'évaluation figurent dans l'annexe ci-jointe qui fait partie intégrante du certificat et comprend 4 page(s) en annexe.
Tous les plans, schémas et notices sont déposés au Laboratoire national de métrologie et d'essais sous la référence de dossier P242611 -1.

The principal characteristics, evaluation conditions are set out in the appendix hereto, which forms part of the approval documents and consists of 4 pages in annex.
All the plans, shematic diagrams and documentations are recorded under reference file P242611 -1.

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Pour le Directeur Général
On behalf of the General Director

Laboratoire national de métrologie et d'essais – LNE

Signature numérique de Emeric MOREL ID

Responsable du Département Certification Instrumentation
Head of Instrumentation Certification Department

CIM11bis-V8-09-2022

Annex to part certificate
n° LNE - 40772 rev. 0

Revision history of this certificate

Revision number	Modification made
0	Initial certificate

The documents used to assess compliance with directive 2014/31/EU are EN 45501:2015 and OIML recommendation R76-1:2006 and Welmec Guide 7.2 version 2023 (updated May 2024).

All the properties of these modules, whether described or not, must not conflict with these standards.

1. Functional description

The LOGR Weighbridge System digital data processing device with primary display is a device for weighing vehicles. Each time a weighing operation is performed on the NAWI (weighbridge) connected to the LOGR Weighbridge System, the device securely records the measurement data along with the necessary additional information (date/time, instrument, vehicle identification, product, customer, etc.). The data can be viewed on a primary display.

The LOGR Weighbridge System device is designed to be connected to a non-automatic weighing instrument (NAWI) suitable for weighing vehicles, compatible (communication via serial or TCP/IP protocol) and which has been issued with an EU type examination certificate by a notified body responsible for EU type examination in accordance with Directive 2014/31/EU.

The LOGR Weighbridge System device software is installed in a CE-marked Edge Box operating a Linux-based System (for example EdgeBox-RPi-200). The user does not have access to the operating system. The Edge Box does not include the analogue-to-digital converter and has its own power supply, separate from that of the weighing instrument.

The legally relevant parts of the software are:

Weighbridge Interface Software (WIS) :
- Indicator-reader (core) ;
- Weighbridge-client ;

Identity Service (IDS) :
- Identity-provider ;

Message Server :
- Session-host ;

Operator Terminal (OT) :
- Terminal.

The Weighbridge Interface Software (WIS) reads raw weight measurement data, parses the data and publishes stable weight readings to other services connected via the LOGR Message Server, such as the Operator Terminal. The WIS stores records of measurements from connected measuring instrument.

IDS provides identification data to the WIS for the purpose of identifying vehicles being weighed.

The Message Server distributes weight measurement data and business-domain data to the software components of the Edge.

The Operator Terminal (OT) is a user interface served directly from the Edge Box to a primary display with integrated human input devices, such as a mouse and keyboard or touchscreen. The OT provides a Weighbridge Control Station Application, and additional administrative functions.

The legally relevant functions are:
- Interface for receiving weighing data,
- Net calculation based on two individual gross weighings,
- Storage of weighing data in a protected database,

- Consultation of weighing data,
- Indications other than primary indications,
- Additional functions that facilitate trade and management.

According to the Welmec 7.2 guide, the software is type U, extensions O, L, T and S, and has risk class C.

The protection of each component of a legal nature is ensured by a hash generated by a SHA256 (base 32) algorithm.

If the calculated sum does not match the certified checksum, operation is no longer possible as the OT is no longer available.

The legal software components are protected against modifications that can be made with common software tools by the following checksums:

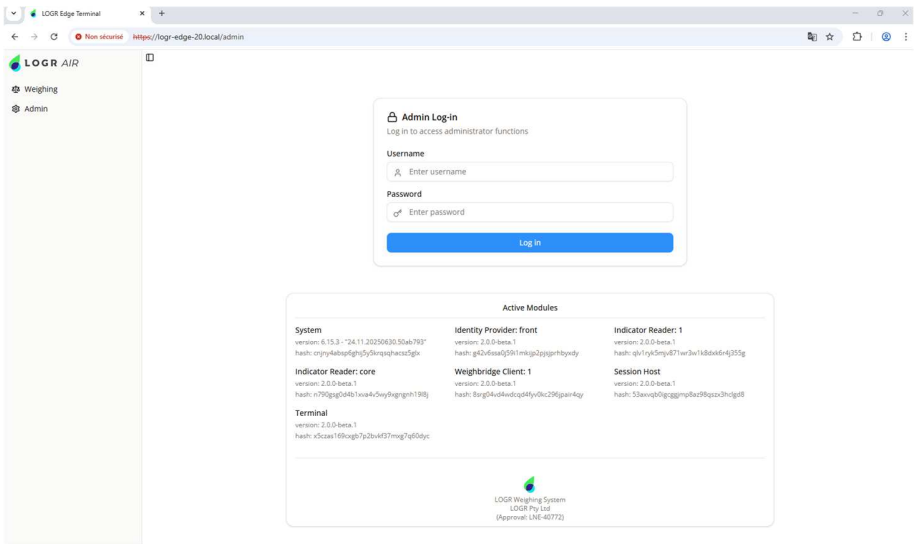
LEGALLY RELEVANT SOFTWARE	VERSION	CHECKSUM
Weighbridge Interface Software (WIS)		
Indicator-reader (core)	2.0.0-beta1	n790gsg0d4b1xva4v5wy9xgngnh19l8j
Weighbridge-client	2.0.0-beta1	8srg04vd4wdcqd4fyv0kc296jpair4qy
Identity Service (IDS)		
Identity-provider	2.0.0-beta1	g42v6ssa0j59i1mkijp2pjsjprhbyxdy
Message Server		
Session-host	2.0.0-beta1	53axvqb0igcggjmp8az98qszx3hclgd8
Operator Terminal (OT)		
Terminal	2.0.0-beta1	x5czas169cxgb7p2bvkf37mxg7q60dyc

The legal software components work with the non-legal module “System”, which displays the currently active version of the Linux kernel, the operating system version, and a checksum of the active device configuration.

The minimum version of this module “System” is 6.15.3.

These versions can be checked by logging into the terminal software from a PC connected to the same network as the EdgeBox. The information is displayed on the Admin menu. No identification with login and password is necessary.

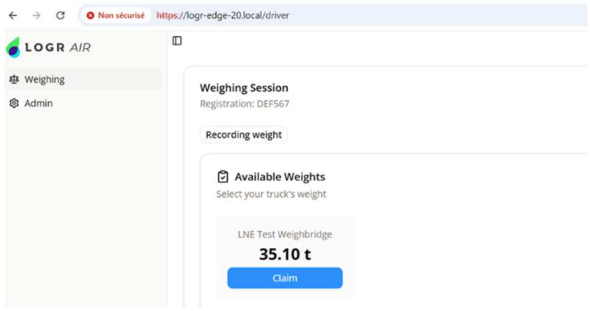
Administrator panel window



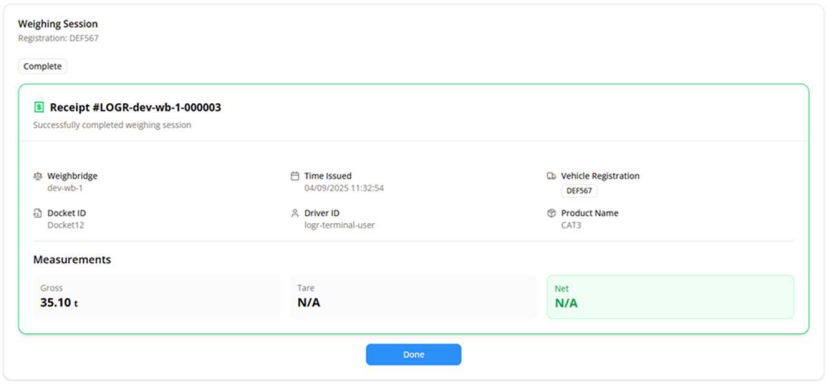
2. Display of indications

The weight values transmitted by the weighbridge are displayed in the form of a receipt with additional information (such as the truck's registration number, the driver's name, company, material weighed, etc.).The weight is either a gross weight or a net weight obtained by double acquisition (calculation based on two individual gross weighings).

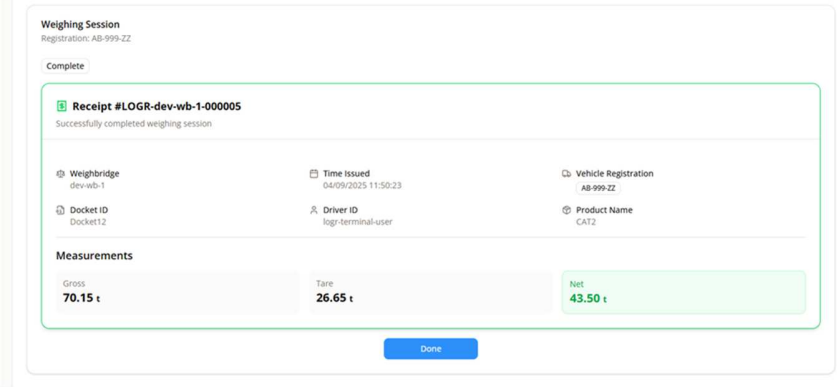
Display of a measurement result:



Example of a receipt with a single weighing:



Example of a receipt with two individual weighings and calculation of the net weight:



Note: weighing indications are expressed in tonnes.

3. Interfaces

The interfaces comply with the requirements of paragraph 5.3.6 of standard EN 45501 (impossibility of falsifying the primary indications of the indicating device) and do not require sealing.

4. Securing and sealing

As explained above, the legally relevant parts of the software are protected. The LOGR Weighbridge System is not equipped with a physical seal.

5. Descriptive marking

The identification of the LOGR Weighbridge System device consists at least of the following information:
- the manufacturer's brand or name,
- the type designation,
- the number of this certificate.

This information is displayed on the operator terminal, at the bottom of the Admin window. No identification by login and password is necessary.